INSTRUCTION MANUAL

MODEL NO.: MCD795

In Car Navigation

Media Player

Important Safety Information

End user must read this section before operating this unit.

- Operation of the unit is permitted only if traffic conditions are suitable and you are absolutely sure that you, your passengers or other motorists are not endangered, obstructed or inconvenienced.
- In all cases, all applicable road traffic regulations must be obeyed. **DESTINATIONS MAY ONLY BE ENTERED WHEN THE VEHICLE IS STATIONARY.**
- The navigation system is only an aid. Errors may occur in individual data items / entries. At all times, the driver must decide whether or not to heed the information provided. We do not accept liability for erroneous data provided by the navigation system.
- Due to continual changes in traffic routing or deviations in the data, it may occur that imprecise or erroneous information is given. Therefore, actual road signs and traffic regulations must always be observed. In particular, the navigation system can not be used as an orientation aid at times of poor visibility.
- The unit may only be used for its intended purpose. The volume of the radio, navigation system should be adjusted so that external noise is still audible.
- **Use the proper power supply, this product is designed to operate with a 12 volt DC, negative ground battery system.**
- Protect the disc mechanism avoid inserting any foreign objects into the slot of this player. Failure to follow this may cause malfunction or permanent damage due to the precise mechanism of this unit.
- Incorrect installation may result in damage to the unit or to the vehicle. Specialist knowledge and skills are required to install the unit and its components. We strongly recommend that you have the unit installed by a specialist workshop.
- **Risk of injury:** Installing the components incorrectly may lead to injuries in the event of a road traffic accident or render safety devices ineffective. Please refer to the instructions provided by the vehicle manufacturer.

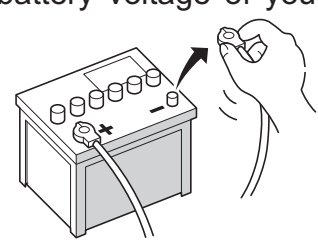
Connecting the System

Important notes

- Do not route wires where they will be exposed to high temperatures. If the insulation heats up, wires may become damaged, resulting in a short circuit or malfunction and permanent damage to the navigation system.
- **Do not cut the GPS aerial cable to shorten it or use an extension to make it longer. Altering the aerial cable could result in a short circuit or malfunction.**
- Do not shorten any leads. If you do, the protection circuit (fuse holder, fuse resister or filter, etc.) may fail to work properly.
- Never feed power to other electronic products by cutting the insulation of the power supply lead of the navigation system and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- The black lead is earth. Please earth this lead separately from the earth of high-current products such as power amps. Do not earth more than one product together with the earth from another product. For example, you must separately earth any amplifier unit away from the earth of this navigation system. Connecting earths together can cause a fire and/or damage the products if their earths became detached.

Before installing this navigation system

- This navigation system is for vehicles with a 12-volt battery and negative earthing. Please check the battery voltage of your vehicle before installation.
- To avoid shorts in the electrical system be sure to disconnect the (–) battery cable before beginning installation.



Connecting the System

About Parking Wire

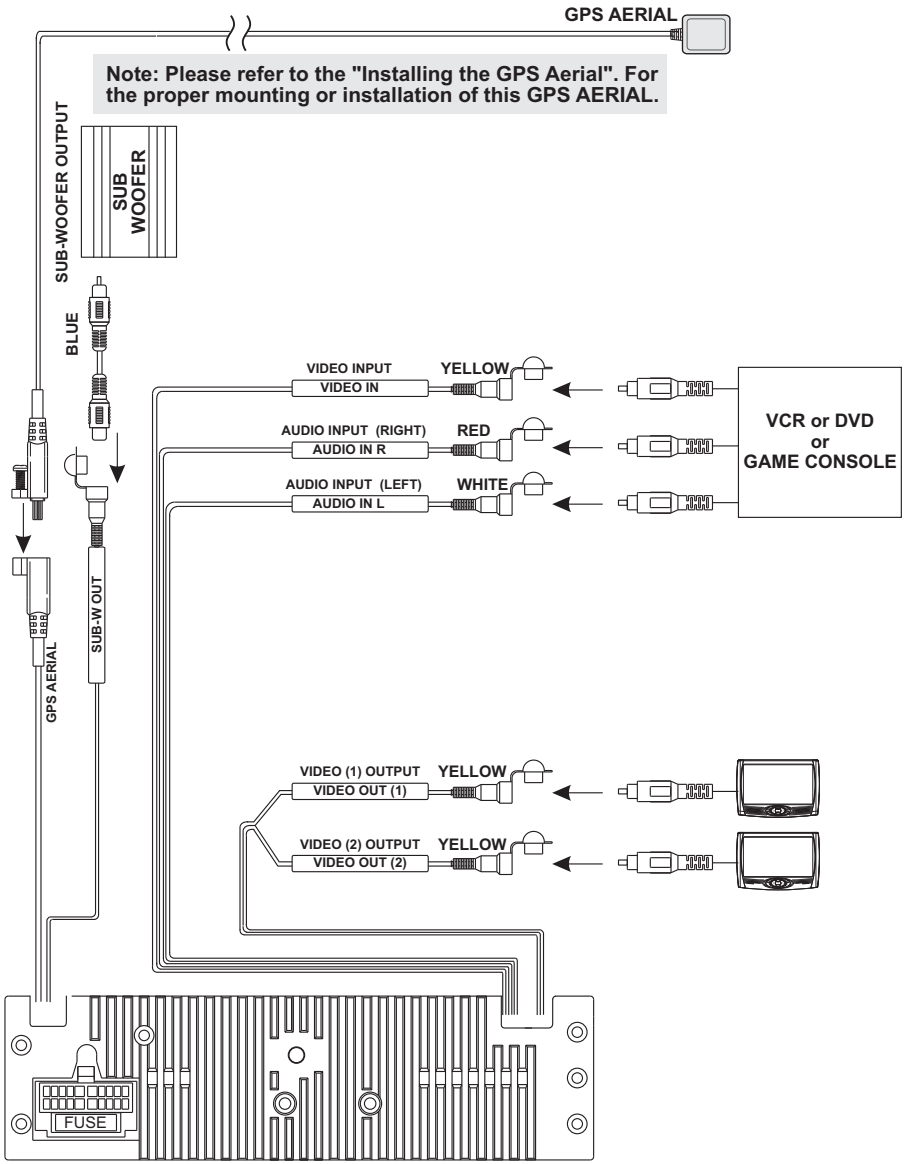
Caution: *In order to avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching moving video while driving. Park your car in a safe place and engage the "parking brake" before watching moving video.*

Note: *If watch moving video from Disc or AV In source but Parking Brake* ***IS NOT PROPERLY CONNECTED****, the video signal will be blocked by the system and the below display will be shown on the unit screen:*

Note: *The Video Blocking system under Parking Brake NOT ENGAGED only control this unit's display, This system will not affect the Video Output thru the rear RCA Video Output.*

Connecting the System

Wiring Diagram - Audio / Video Connections



Connecting the System

Wiring Diagram - Power / Speakers

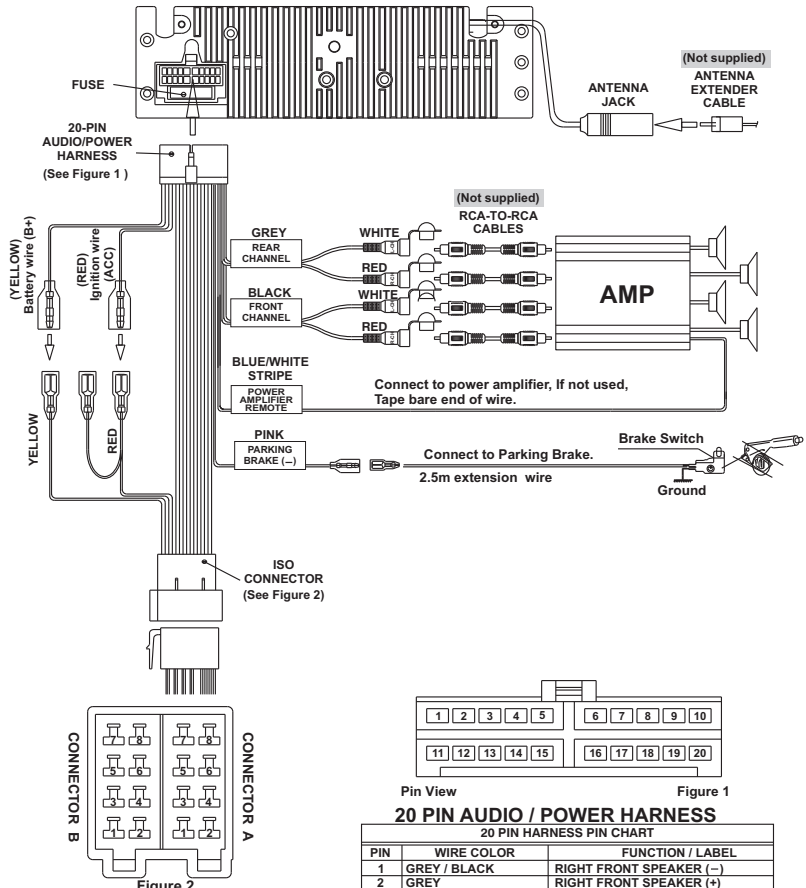


Figure 2

ISO CONNECTOR 4 PIN + 8 PIN FEMALE WITH MALE TERMINAL

ISO CONNECTOR WIRING CHART		
PIN	WIRE COLOR	FUNCTION / LABEL
A4	YELLOW	BATTERY(+)
A5	BLUE	POWER ANTENNA
A7	RED	IGNITION(ACC)
A8	BLACK	GROUND
B1	VIOLET	RIGHT REAR SPEAKER (+)
B2	VIOLET / BLACK	RIGHT REAR SPEAKER (–)
B3	GREY	RIGHT FRONT SPEAKER (+)
B4	GREY / BLACK	RIGHT FRONT SPEAKER (–)
B5	WHITE	LEFT FRONT SPEAKER (+)
B6	WHITE / BLACK	LEFT FRONT SPEAKER (–)
B7	GREEN	LEFT REAR SPEAKER (+)
B8	GREEN / BLACK	LEFT REAR SPEAKER (–)

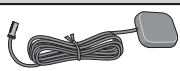
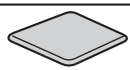
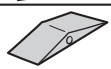
Pin View Figure 1

20 PIN AUDIO / POWER HARNESS

20 PIN HARNESS PIN CHART		
PIN	WIRE COLOR	FUNCTION / LABEL
1	GREY / BLACK	RIGHT FRONT SPEAKER (–)
2	GREY	RIGHT FRONT SPEAKER (+)
3	VIOLET	RIGHT REAR SPEAKER (+)
4	VIOLET/BLACK	RIGHT REAR SPEAKER (–)
5	PINK	PARKING BRAKE(–)
6	GREEN	LEFT REAR SPEAKER (+)
7	GREEN / BLACK	LEFT REAR SPEAKER (–)
8	RED	IGNITION (ACC)
9	BLACK	REAR PRE-AMPLIFIER LINE OUT COMMON
10	RED	RIGHT REAR PRE-AMPLIFIER LINE OUT
11	WHITE	LEFT FRONT SPEAKER (+)
12	WHITE / BLACK	LEFT FRONT SPEAKER (–)
13	BLUE/WHITE	POWER AMPLIFIER REMOTE (+)
14	BLUE	POWER ANTENNA
15	YELLOW	BATTERY (+)
16	BLACK	CHASSIS GROUND
17	WHITE	LEFT FRONT PRE-AMPLIFIER LINE OUT
18	RED	RIGHT FRONT PRE-AMPLIFIER LINE OUT
19	BLACK	FRONT PRE-AMPLIFIER LINE OUT COMMON
20	WHITE	LEFT REAR PRE-AMPLIFIER LINE OUT

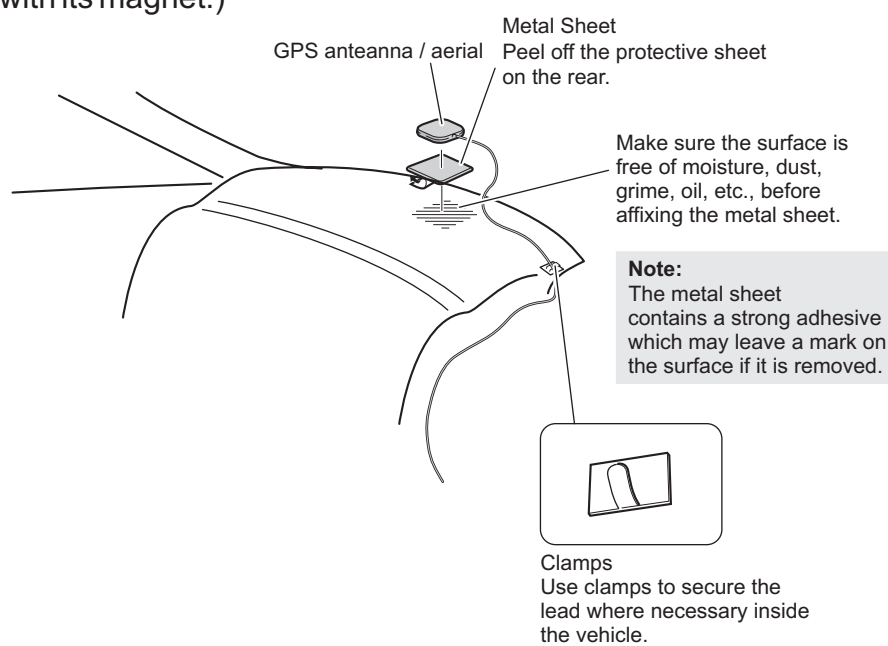
Installing the GPS Antenna / Aerial

Parts Supplied

Setting	Description
	GPS aerial
	Metal sheet
	Clamp (5 pcs.)
	Waterproof pad

When installing the aerial inside the vehicle (on the rear shelf)

Affix the metal sheet on as level a surface as possible where the GPS antenna / aerial faces the window. Place the GPS antenna / aerial on the metal sheet. (The GPS antenna / aerial is fastened with its magnet.)

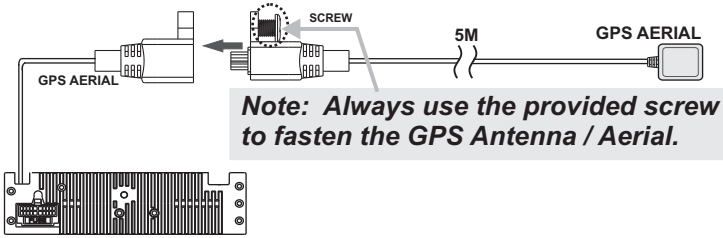

Metal Sheet
GPS anteanna / aerial
Peel off the protective sheet on the rear.
Make sure the surface is free of moisture, dust, grime, oil, etc., before affixing the metal sheet.
Note:
The metal sheet contains a strong adhesive which may leave a mark on the surface if it is removed.
Clamps
Use clamps to secure the lead where necessary inside the vehicle.

Installing the GPS Antenna / Aerial

End user must read this section before installing the GPS Antenna / Aerial.

***Caution:** Do not cut the GPS antenna / aerial lead to shorten it or use an extension to make it longer. Altering the aerial cable could result in a short circuit or malfunction and permanent damage to the navigation system.*

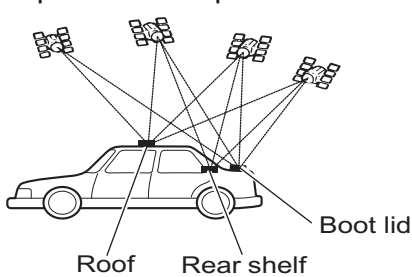
Connecting the GPS Antenna / Aerial to the unit



Note: Always use the provided screw to fasten the GPS Antenna / Aerial.

Installation Notes

- The aerial should be installed on a level surface where radio waves will be blocked as little as possible. Radio waves cannot be received by the antenna / aerial if reception from the satellite is blocked. Installation on the vehicle roof or boot lid is recommended to optimism reception.



- When installing the GPS antenna / aerial inside the vehicle, be sure to use the metal sheet provided with your system. If this is not used, the reception sensitivity will be poor.
- Do not cut the accessory metal sheet. This would reduce the sensitivity of the GPS aerial.

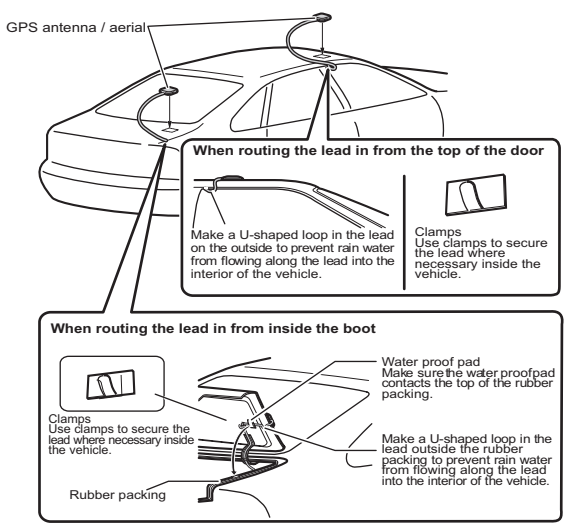
Installing the GPS Antenna / Aerial

- Take care not to pull the antenna / aerial lead when removing the GPS aerial. The magnet attached to the aerial is very powerful and the lead may become detached.
- The GPS antenna / aerial is installed with a magnet. When installing the GPS antena / aerial, be careful not to scratch the vehicle body.
- When installing the GPS antenna / aerial on the outside of the vehicle, always put it in the vehicle when going through an automatic vehicle wash. If it is left on the outside it may be knocked off and scratch the vehicle body.
- Don't paint the GPS antenna / aerial, as this may affect its performance.

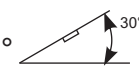
Note: When attaching the metal sheet, do not cut it into small pieces. Some vehicles use window glass that does not allow signals from GPS satellites to pass through. On such vehicles, install the GPS antenna / aerial on the outside of the vehicle.

When installing the aerial outside the vehicle (on the body)

Put the GPS aerial in a position as level as possible, such as on the roof or boot lid. (The GPS aerial is fastened with a magnet.)


GPS antenna / aerial
When routing the lead in from the top of the door
Make a U-shaped loop in the lead on the outside to prevent rain water from flowing along the lead into the interior of the vehicle.
Clamps
Use clamps to secure the lead where necessary inside the vehicle.
When routing the lead in from inside the boot
Water proof pad
Make sure the water proofpad contacts the top of the rubber packing.
Clamps
Use clamps to secure the lead where necessary inside the vehicle.
Make a U-shaped loop in the lead outside the rubber packing to prevent rain water from flowing along the lead into the interior of the vehicle.
Rubber packing

Installation the Unit

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions or permanent damage to the unit.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° 

from horizontal, the unit might not give its optimum performance.
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

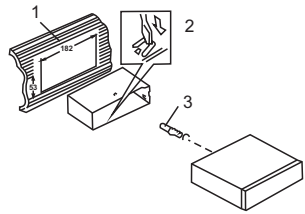
Din front / rear-mount

This unit can be property installed either from“Front”(conventional DIN Front-mount) or ″Rear″ (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods A and B.

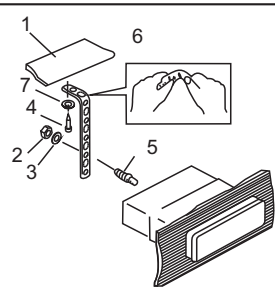
Din front-mount (Method A)

No.	Content
1	Dashboard
2	Holder After inserting the half sleeve into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
3	Screw

Installation the Unit



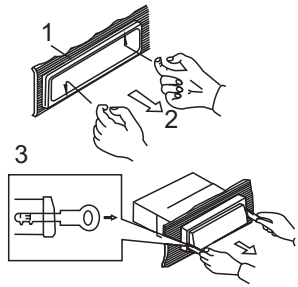
No.	Content
1	Dashboard
2	Nut (5mm)
3	Spring washer
4	Screw (4X12mm)
5	Screw
6	Support Strap Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle
7	Plain washer



Removing the unit

No.	Content
1	Frame
2	Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
3	Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

Installation the Unit



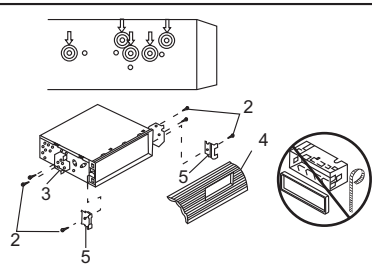
Trim Plate Installation

Push the trim plate against the chassis until it is fitted. You must do this before you install the front panel, otherwise it can't be attached.

Din rear-mount (method B)

Installation using the screw holes on the sides of the unit.Fastening the unit to the factory radio mounting bracket.

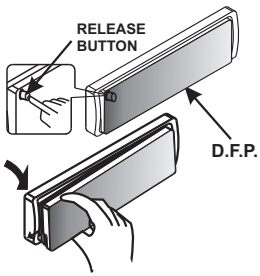
No.	Content
1	Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted) and tighten the screws at 2 places on each side.
2	Screw
3	Factory radio mounting bracket.
4	Dashboard or Console
5	Hook (Remove this part)



Note: *The mounting box, outer trim ring and half-sleeve are not used for method B installation.*

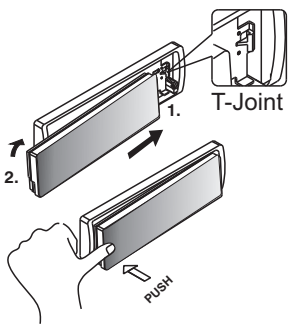
Detachable Front Panel (D.F.P.)

Removing the detachable front panel (D.F.P.).



1. Turn the Power off.
2. Press the Panel Release Button.
3. Remove the D.F.P.

Attaching the detachable front panel (D.F.P.)



1. Insert the right side of the D.F.P. Into the main unit.

Note: *The D.F.P. Must be attached into the T-Joint.*

2. Press the D.F.P. on to the left side of middle of D.F.P. until a ″ click″ sound is heard.

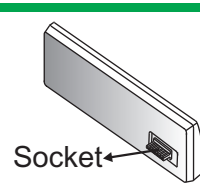
Caution: *Do not insert the D.F.P from the left side. Doing so may damage it.*

The D.F.P can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.

When the release button is pressed and the D.F.P is unlocked, the car's vibrations may cause it to fall. To prevent damage to the D.F.P, always store it in a protective case after detaching it.

The rear connector that connects the main unit and the D.F.P is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.

Note: *If the D.F.P is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.F.P.*



Panel Open / Close Operation

The unit is equipped with the most advanced full logic motorized slide down system.You can enjoy the advance technology with a single press of the ″Eject / Open″ button. Please read carefully the following operation instruction before operating the unit.

Open / close the panel

Press the ″Eject / Open″ button to slide down (Eject / Open) closed panel or to slide up (close) an opened panel.

Loading a CD

Panel in the slide down position, the disc slot become accessible.

Insert a CD through the disc slot, the CD will be automatically load and the panel will also close automatically & playback will begin.

If no CD is inserted, press Open button again to slide up the panel.

Ejecting a CD

Press Open button to slide down the panel, if a CD is loaded, it will be ejected automatically. No further key press is needed.

If the ejected CD is not being removed, after 10 seconds it will be reloaded automatically. And the panel will automatically slide up after disc has been reloaded.

Caution : *If the ejected disc remains in the slot, the Open button will not function, so closing the panel by using Open button is prevented unless the disc is removed or reloaded.*

Panel angle Adjustment

End user can adjust the panel viewing angle of the display to obtain the optimum viewing angle inside the vehicle. There are TWO angles can be adjusted by Long pressing the panel Eject / Open button:

1st long press to get into Angle 1

2nd long press to get into Angle 2

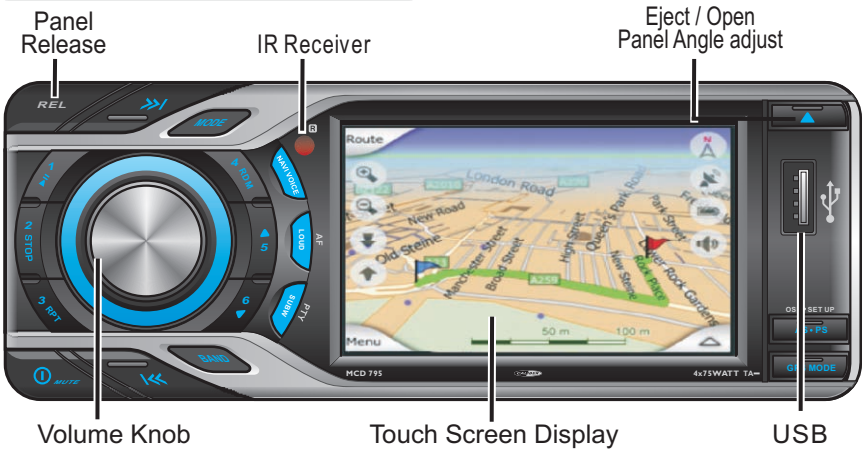
3rd long press to resume to the normal position.

Caution: *Please always use the "OPEN" button to slide up/ down the front panel.* ***Please never try to slide up or down the front panel manually,*** *this will cause serious & permanent damage to the slide down mechanism, and this will void the warranty.*

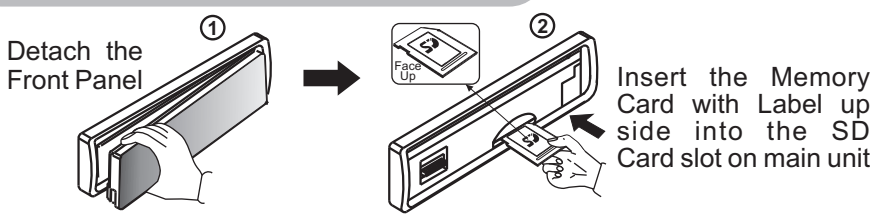
Please do not try to detach / remove the front panel (by pressing the detach button) or attach the front panel when the panel is in the slide down position. This may cause serious & permanent damage to the unit & panel. Only attach or detach the front panel when the panel is in the slide up position.

Overview the Unit

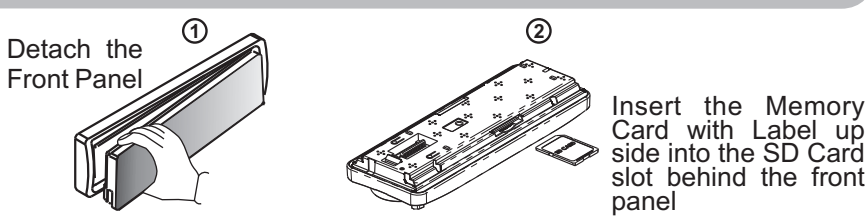
Front panel main control



SD Card slot for MEDIA PLAYER

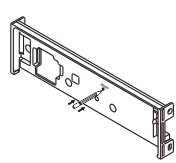


SD Card slot for DIGITAL MAP or SOFTWARE UPGRADE



Resetting the unit

After releasing the front panel, use a pencil or any non-metalic object to press & hold the reset button for five seconds to reset the unit.



Disc Can Supports

Discs can play with this unit

No.	Content
1	Digital Versatile Discs (DVDs)
2	Video CDs (VCDs)
3	Digital Versatile Discs Recordable(DVD+/-R)
4	Digital Versatile Discs Rewritable(DVD+/-RW)
5	Compact Digital Video (VCD)
6	Compact Discs (Cds)
7	CD Recordable (CD-R)
8	CD Rewritable (CD-RW)

Discs which can not be played

- 8 cm Disc
- CDV, CDI, CDG,
- LD
- DVD RAM

Note on region code

ALL DVD players and DVD Video discs have their own Region Code numbers. This unit can play the disc of all region code numbers.

Disc maintenance

Before playing, wipe the disc using a clean cloth, working from the center hole towards the outside edge.Never use benzene, thinners, cleaning luids or antistatic liquids or any other solvent.

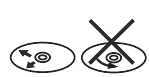
Note: *A disc may become somewhat scratched (although not enough to make it unusable) depending on you handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.*

Label side Up

Do not bend

Never touch the under side of a disc

Wipe the disc surface from the center to the edge.



Formats Can Playback

Audio format can playback

Playback CD-DA and MP3 or WMA digital music file on CD-ROM or DVD-ROM or USB or Memory Card.

Note of MP3 and WMA:

- *Support Maximum 2000 files.*
- *Maximum 30 characters display.*
- *Supported Sampling frequencies; 32kHz, 44.1kHz, 48kHz.*
- *Supported Bit-Rates: MP3=8 ~320kbps variable bit rate;*
  WMA = 32 ~ 192kbps variable bit rate.

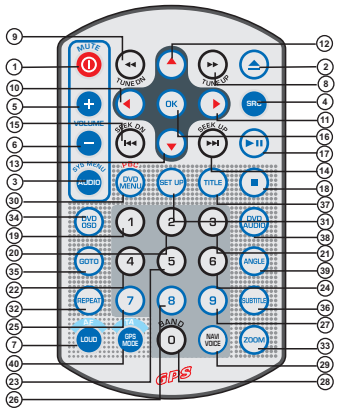
Video format can playback

Playback IMAGE JPEG, DVD Video, AVI, MPEG4. on CD-ROM or DVD-ROM or USB or Memory Card.

Note of the MPEG4:

- *Supported decoding MPEG4 video defined by ISO 14496-2 Standard.*
  A) Simple Profile (SP)
  B) Advance Simple Profile (ASP)
- *Supported file format: MP4 and M4A (audio only).*

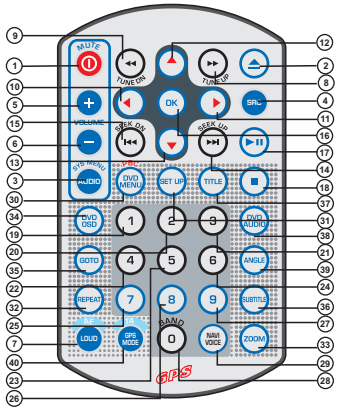
Remote Control Operations



OPERATIONS:

KEY	SYSTEM		TUNER		CD		MP3		DVD	
	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press
1	Mute	Power								
2	Open & Close	Angle		Angle	Eject	Angle	Eject	Angle	Eject	Angle
3	Audio Menu	System Menu								
4	Source									
5	Volume Up									
6	Volume Down									
7	Loud	AF								
8			Tune Up		Fast Forward		Fast Forward		Fast Forward	
9			Tune Down		Fast Backward		Fast Backward		Fast Backward	
10					Left		Left		Left	
11					Right		Right		Right	
12					Up		Up		Up	
13					Down		Down		Down	
14			Seek Up		Track Up		File Up		Next	
15			Seek Down		Track Down		File Down		Back	
16					Ok		Ok		Ok	
17					Pause /Play		Pause /Play		Pause /Play	
18					Stop		Stop		Stop	
19			M1	Memory 1	Track NO. Access		File NO. Access		Numeric 1	
20			M2	Memory 2	Track NO. Access		File NO. Access		Numeric 2	
21			M3	Memory 3	Track NO. Access		File NO. Access		Numeric 3	
22			M4	Memory 4	Track NO. Access		File NO. Access		Numeric 4	

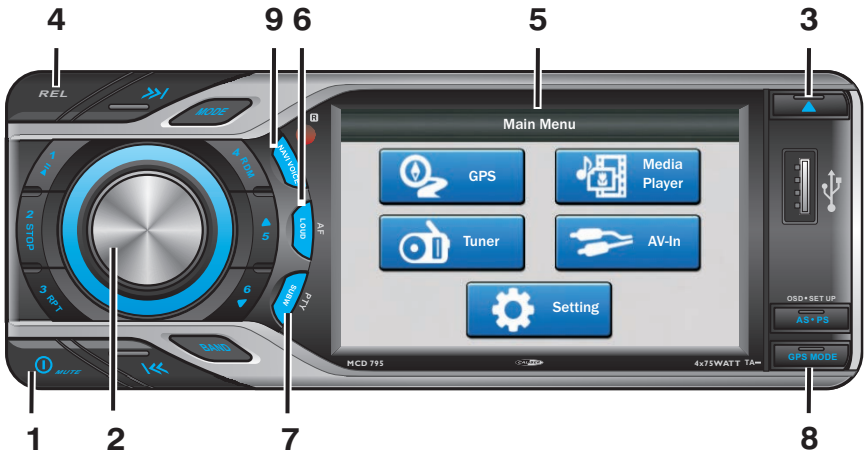
Remote Control Operations



OPERATIONS:

KEY	SYSTEM		TUNER		CD/MP3/WMA		DVD	
	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press
23			M5	Memory 5	Track NO. Access File NO. Access		Numeric 5	
24			M6	Memory 6	Track NO. Access File NO. Access		Numeric 6	
25					Track NO. Access File NO. Access		Numeric 7	
26					Track NO. Access File NO. Access		Numeric 8	
27					Track NO. Access File NO. Access		Numeric 9	
28			Band		Track NO. Access File NO. Access		Numeric 0	
29	NAVI Voice Volume	NAVI Voice On/Off						
30							VCD: PBC DVD: DVD MENU	
31					Set Up		Set Up	
32					Repeat Off Repeat Track Repeat Disc		Repeat Off Repeat Chapter Repeat Title	
33							Zoom	
34							OSD	
35							GoTo	
36							Subtitle	
37							Title	
38							DVD Audio	
39							DVD Angle	
40	GPS Mode	TA						

General Operations



1 Power On / Off Button

Long press the POWER button for more than 3 seconds or short press any other button on the front of the panel (except the Eject / Open) to turn on the unit. Long press the POWER button for more than 3 seconds to turn Off the unit.

1 Mute Button

Short press the MUTE button less than 3 seconds to mute the audio output and ″Mute″ will appear on the screen. Press the mute button again to resume the audio output to the previous level.

2 Encoder Volume Button

To increase the volume, rotate the volume control knob clockwise.To decrease the volume, rotate the volume control knob counter clockwise. When the volume is adjusted, the volume level will be shown on the screen.

Tip: *The navigation voice guidance level is adjustable. Please refer to page "Navigation Operation_Hightlight Features" for more details.*

3 Eject Button

Short press the EJECT button less than 3 seconds to eject the Disc.

3 Panel Angle Adjustment

End user can adjust the panel viewing angle of the display to obtain the optimum viewing angle inside the vehicle There are TWO angles can be adjusted by Long pressing the panel Eject / Open button:

1)1st long press to get into Angle 1

2)2nd long press to get into Angle 2

3)3rd long press to resume to the normal position

4 Panel Release Button

Press this button to remove detach the control panel.

5 Main Menu Screen

Starts by displaying the Main Menu. This is the root of the screen hierarchy and can simply access to all features by tapping on the touch screen button, the below menu will be appear:

Button	Control
	Access into GPS Navigation
	Access into Media Player mode
	Access into Tuner mode
	Access into AV-In mode
	Enter into the Setting menu

6 Loud Button

Short press the Loud button for less than 3 seconds to select the Loud On to increase bass output, the default is Off.

7 Sub-woofer

Short press the SUB-W button for less than 3 seconds to turn on the Sub-woofer function. Press the SUB-W button again to turn off the Sub-woofer function.

8 GPS Mode

End user can switch the TFT display between the playback mode and GPS NAVIGATION / MAP screen by following:

1. Short pressing the GPS MODE button on panel.
2. Tapping on the touch screen button NAVI or GPS .

9 Navi Voice

This unit will automacitally MUTE the audio output of the Media player when there is announcement from the navigation voice guidance. This function can be activated or deactivated by tapping on the screen NAVI VOICE or GPS .

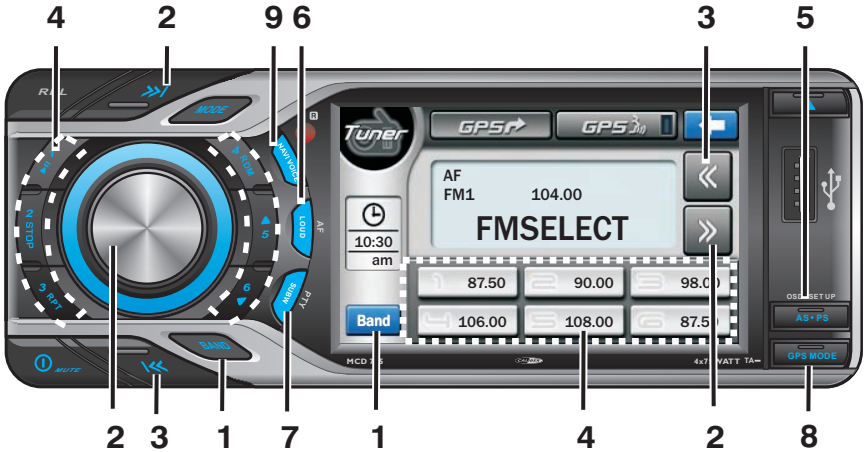
The sound level of the navigation voice guidance can be adjusted by pressing the NAVI VOICE button and When GPS Vol 26 / GPS VOL : 34 display on screen there is around 10 seconds time out to adjust the desired sound level by rotating the encoder volume knob.

Button	Control
GPS	Navigation Voice guide on
GPS	Navigation Voice guide off

Tips: *This NAVI VOICE sound level adjustment will not affect the Tuner or Media Player volume level .*

Long pressing NAVI VOICE button to switch this NAVI VOICE guidance ON or OFF.

Tuner operations



1 Band Function

Press panel BAND button or touch screen

to change between FM bands and AM(MW) bands.

2&3 Tuning Up/Down

Manual Tuning

Press & Hold the panel UP / DOWN Tuning button or tapping touch screen button to move the radio frequency number up or down by one step.

Auto Seek Tuning

Press the panel UP / DOWN Tuning button or tapping touch screen button to move to next station automatically.

4 Preset Stations

Press the panel 6 numbered preset buttons or tap touch screen button to store and recall stations for each band.

5 Automatically store / preset scan (AS/PS)

Automatically select 6 strongest stations and store them in the current band. Long press panel AS / PS button for more than 3 seconds, the new stations replace stations already stored in that band.

Preset Scan

To Scan the stations already stored in the current band. Short press panel AS / PS button for less than 3 seconds, the unit will pause for 10 seconds at each preset station. Press panel AS / PS button again to stop scanning when the desired station is reached.

Tuner operations

RDS Function

The unit is equipped with the following RDS function:

- AF Alternative Frequencies
- CT Clock Time
- PI Program identifications
- PS Program service name
- PTY Program Type
- REG Regional Change
- TA Traffic Announcement
- TP Traffic program

6 AF function

Short pressing panel AF button less than 3 seconds to select AF ON / OFF. ″AF″ icon will light up on the screen. Under AF “On” mode, if the tuned in station signal is getting weak, the unit will automatically switches to a different frequency on the same network with stronger signal.

Note: *Factory default setting is "AF ON" .*

8 TA Function

Short pressing panel GPS MODE / TA button less than 3 seconds, to switch on TA standby mode. The TA icon will light up on the screen. In the stand by mode, when a traffic announcement broadcast starts, the traffic announcement broadcast will be received as top priority regardless of the function mode. When a traffic announcement starts, ″TRAFFIC INFO″ will show on the screen, press the TA button can cancelled the broadcast reception while a traffic announcement broadcast is being received. The unit will go back to the previous mode and TA goes into stand by mode again.

Tuner operations

7 PTY Function

Long press the SUB-W / PTY button for more than 3 seconds to set into the PTY mode. And then press this button repeatedly to different PTY group as listed below. Once the desired PTY is shown on the preset memory M1 to M6, press this preset memory number to activate the searching of this PTY, the PTY name will appear on the 6 preset buttons.

GROUP-1

GROUP-2

GROUP-3

GROUP-4

GROUP-5

If no station with the selected PTY broadcast can be found for 5 seconds, the system then returns to the previous mode.

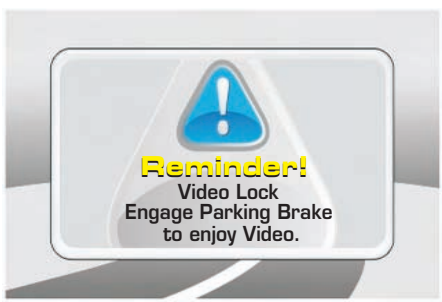
Media Player

This Multi-Media player unit can support the playback of CD Disc, DVD disc, USB Host, SD Memory Card.

Note: *For more details of this unit supporting playback disc and format. Please see pages of "Disc Can support" & " Format can playback".*

Caution: *In order to avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching moving video while driving. Park your car in a safe place and engage the " parking brake" before watching moving video.*

Note: *If watch moving video from Disc or AV In source but Parking Brake IS NOT PROPERLY CONNECTED, the video signal will be blocked by the system and the below display will be shown on the unit display:*



Select the Media Soruces for playing

1. Press the MODE button repeatedly on panel or remote control to switch between Tuner -> Disc -> USB - > SD Card - > AV IN Mode.
2. Aceess to MAIN MENU and tap

MEDIA PLAYER. Tap the following buttons to start playing the desired media sources:
   - button to play files in USB
   - button to playing the Disc
   - Button to play the files in SD card

Media Player

Note: *If any media device is not avaiable in this unit, this media souurce will not appear during Mode switch or on the touch screen.*

Note: *This unit only can playback the SD Card which is inserted in the main unit.*
Please refere to the page "Overview of the unit" for more details of the SD card slot for media player use.

Color setting during DVD video disc playback

Tapping touch screen button SET to access into the DVD video color setting. The below Set Up menu will appear:

COLOR	Change setting for Color
BRIGHTNESS	Change setting for Brightness
CONTRAST	Change setting for Contrast
HUE	Change setting for Hue
RESET	Reset to default setting
X	Exit Color configuration menu

Media Player

Navigation While Media Player Playback

Navigation Voice Guidance on or off under Media Player playback

This unit will automacitally MUTE the audio output of the Media player when there is announcement from the navigation voice guidance. This function can be activated or deactivated by tapping on the screen button [NAVI VOICE].

Navigation Voice Guidance Volume level control

The sound level of the navigation voice guidance can be adjusted by pressing the NAVI VOICE button and When

/

display on screen there is around 10 seconds time out to adjust the desired sound level by rotating the encoder volume knob.

Tips: *This NAVI VOICE sound level adjustment will not affect the Tuner or Media Player volume level .*

Tips: *Long pressing NAVI VOICE button to switch this NAVI VOICE guidance ON or OFF.*

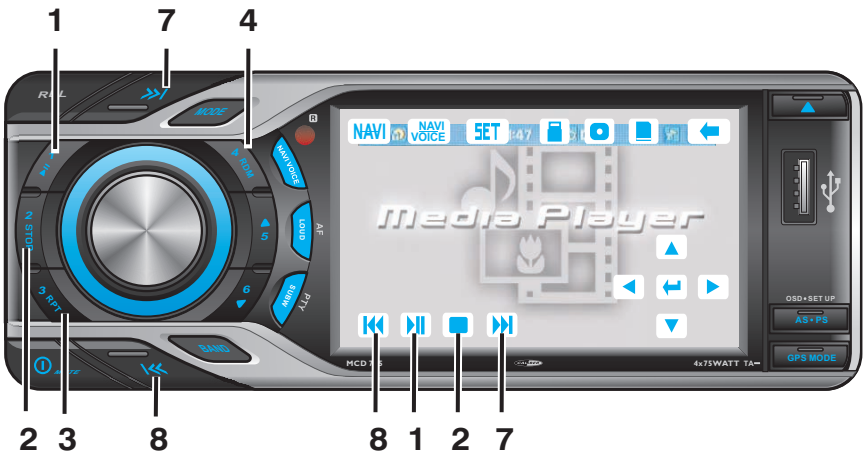
Switch TFT display mode between GPS Map to Media Player

End user can switch the TFT display between the playback mode and GPS NAVIGATION / MAP screen by following:

1. Short pressing the GPS MODE button on panel.
2. Taping on the touch screen button [NAVI] .

Media Player

CD/VCD Disc Operation



Track / File

Press the TRACK / FILE UP (7) / TRACK / FILE DOWN (8) button or touch screen ⏭ (7) / ⏮ (8) for less than 1 second to move to the next or previous track on the CD. The selected track number will appear on the screen. Press and Hold TRACK UP (7) / TRACK DOWN (8) button or touch screen ⏭ (7) / ⏮ (8) for more than 1 second to fast forward or fast reverse through the disc. Playback will resume when the button is released.

1 Pause/ Play Fuction

- Press PLAY / PAUSE button or tap touch screen button ⏯ to start the playback of the disc, During title menu, root menu, pause, resume stop, stop, slow forward, fast forward, fast backward mode.
- Press PLAY / PAUSE button or tap touch screen button ⏯ to pause the playback. Press PLAY / PAUSE again to resume the playback.

2 Stop Function

Press STOP button or tap touch screen button to stop playing.When playback is stopped,the unit can keep the memory of where the STOP was pressed. Press PLAY and the playback will resume from this point. Press STOP button again, RESUME function will be cancelled and the unit is now in full stop mode. If PLAY button is pressed now, it will play from the beginning. RESUME function is suitable for discs showing playing time during playback.

Press STOP twice, state changes:play->resume stop->full stop.

3 Repeat Function

Press REPEAT button during playback to activate the repeat play function.

- **CD Repeat:**
  Press REPEAT, state changes: repeat all -> repeat track
- **VCD/SVCD Repeat:**
  Short press REPEAT, state changes:repeat off -> repeat track. Long press REPEAT, state changes: repeat off -> repeat all.

4 Random function

- Normal -> Random on repeat default.
- Random -> Normal on repeat default.

7&8 Fast Forward / Fast Reverse

Press FAST FORWARD / FAST REVERSE button during playback, the disc will fast forward or backward in different times of normal playing speed. There are 5 levels of speed available: X2, X4, X8, X16, X32, means multiply with the normal speed.

To return back to normal play while in FAST FORWARD or FAST BACKWARD mode, just press PLAY button on the panel or the remote control.

Press FAST FORWARD, speed changes: normal speed -> X2 -> X4 -> X8 -> X16 -> X32 -> normal speed.

Press FAST REVERSE, speed changes: normal speed -> X2 -> X4 -> X8 -> X16 -> X32 -> normal speed.

Media Player

PBC (On remote control)

Press PBC button on remote control to choose a VCD disc play mode:PBC_ON or PBC_OFF,when you playing a VCD disc. When pressing PBC button and the player change to PBC _ON playing mode, a PBC list of the disc will be displayed on TV or monitor. In PBC list, use number button to select a track to play or direction press PLAY button to start to the playback.

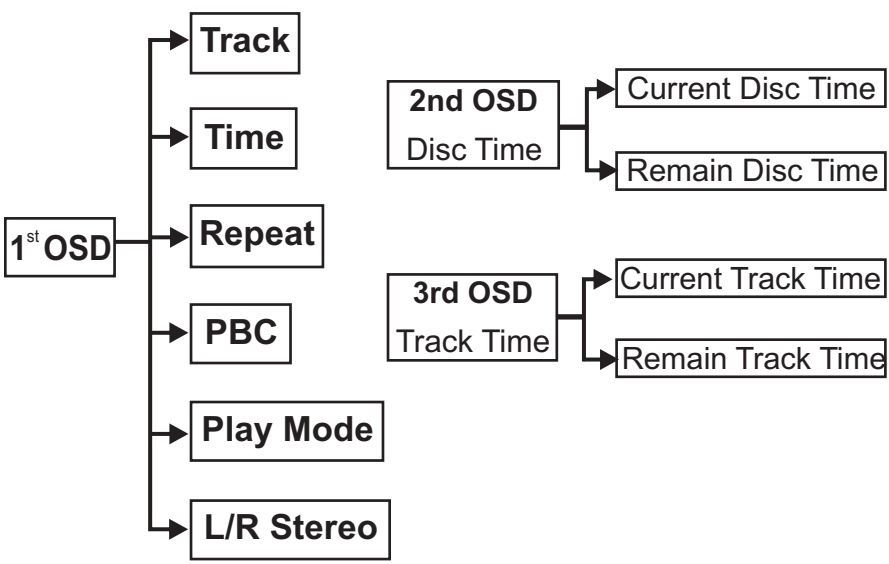
OSD

VCD, SVCD, CD OSD information item:
Press OSD, state change:
1st OSD -> 2nd OSD -> 3rd OSD -> OSD off

1st OSD

2nd OSD

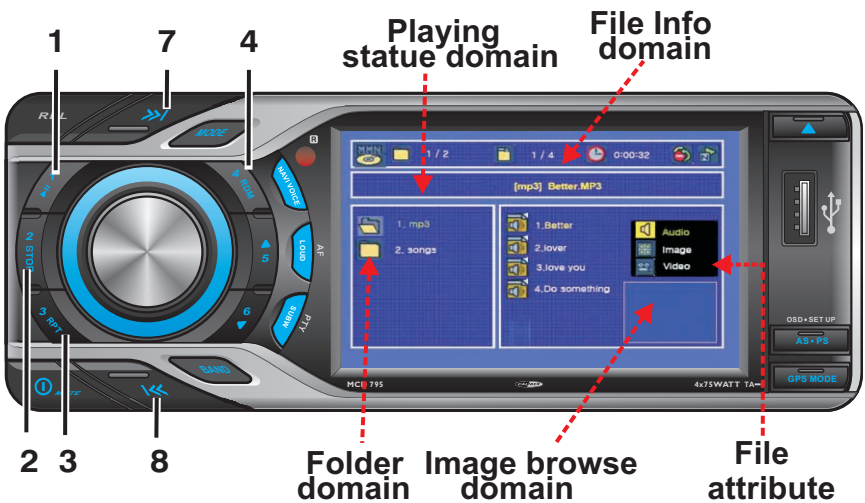
3rd OSD



Media Player

Music / Image / Video File Playback Operation

The following display information will appear, if a Multi-Media disc or USB or SD is inserted into this unit.



File attribute selection

In non-search state, press on remote control or tap touch screen ◀ / ▶ button to move the cursor to file attribute domain, then press on remote control or tap touch screen ▲ or ▼ button to select Audio, Image, Video file attribute and press OK button on remote control or tap touch screen ↵ button to determine the attribute you selected.

Folder/File selection

Press on remote control or tap touch screen ◀ / ▶ button to move the cursor to folder or file domain. By pressing number ▲ / ▼ key to select the song you want to play, then press OK button on remote control or tap touch screen ↵ key to play the selected song. Also, you may press PREV (8) or NEXT (7) key to play the previous or the next song while play and pause.

Media Player

Note: *Other operation are the same as CD / VCD, like repeat, program and so on.* ***Please refer to the CD / VCD Disc Operation section.***

10&11 Up / Down / Right / Left / Enter

Press on remote control or tap touch screen ▲ / ▼ / ◀ / ▶ button to move the cursor.
Press OK button on remote control or tap touch screen button ↵ to confirm the selection.

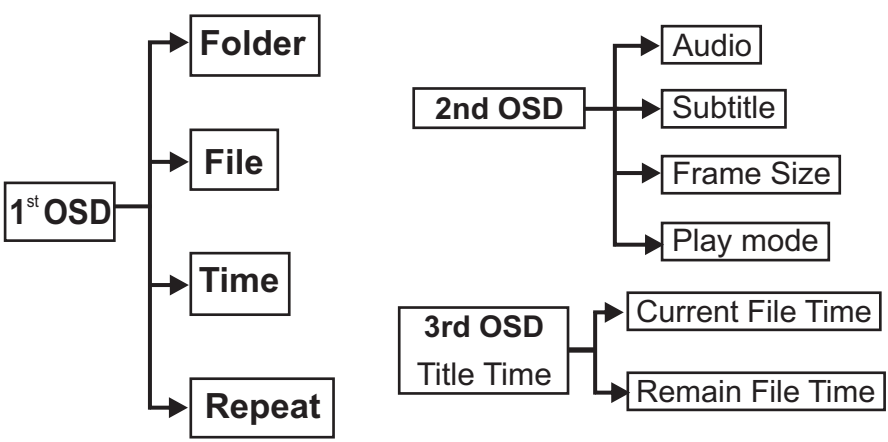
OSD

MMN Video OSD information item:
Press OSD, state change:
1st OSD -> 2nd OSD -> 3rd OSD -> OSD off

1st OSD

2nd OSD

3rd OSD



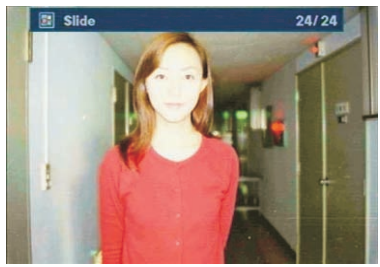
Media Player

MMN->IMAGE View-> Slide

In Slide mode, when the key ″ENTE″or ″PLAY″is pressed, the player will show pictures or photos one by one from current picture. It will stop and return back when the last one has been shown, Press ″STOP″ button or tap touch screen [ ] button to stop the slide show mode.

ENTER->

<- STOP



MMN->IMAGE View-> Rotate

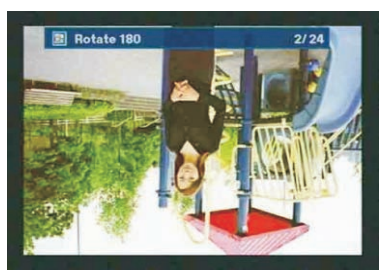
By using the "Rotate" function, the picture or photo can be shown in different angle and press on remote control or tap touch screen ▲,▼,◀, ▶key to switch among these angles.

Rotate angle:

▲: Rotate 0 ▶: Rotate 90 ▼: Rotate 180 ◀: Rotate 270

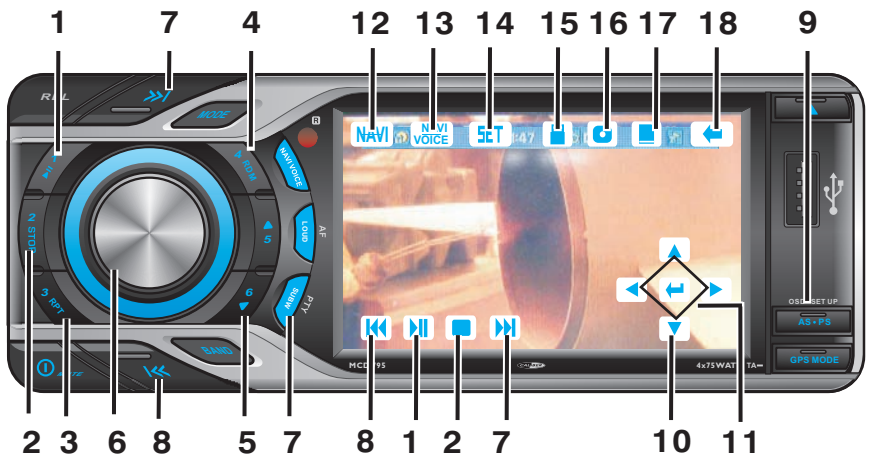
▲ ▶

◀ ▼



Media Player

DVD Disc Operation



Once a DVD disc is inserted into the unit, the unit will automatically start the playback from the beginning of the disc and then the DVD MENU or ROOT or TITLE in the DVD disc will appear on the TFT monitor and "ROOT" will be displayed on the TFT of the unit.

Tip: *When the DVD Menu or Root or Title is show on the screen, end user can use remote control or tap touch screen* ▲ ▼ ◀ ▶ *button to move the cursor and the* ↵ *button as OK button.*

1 Play / Pause Function

- Press PAUSE or touch screen ⏯ to pause playback.
- Press PAUSE or touch screen ⏯ to single step forward to the next picture in the video (DVD and VCD only).
- Press PLAY or touch screen ⏯ to resume normal playback.

2 Stop Function

- Press STOP or touch screen button to stop playback and show the logo screen. The player will memorize the last position where playback is stopped.
- Press PLAY or touch screen to resume playback from the positon where playback is stopped (DVD, VCD 1.1, VCD 2.0 and audio CD).
- Pressing STOP twice or touch screen to resume playback from the beginning of the disc.

3 Repeat Function

Short press REPEAT button less than 3 seconds to change from: repeat off -> repeat chapter.
Long press REPEAT button more than 3 seconds to change from: repeat off -> repeat title.

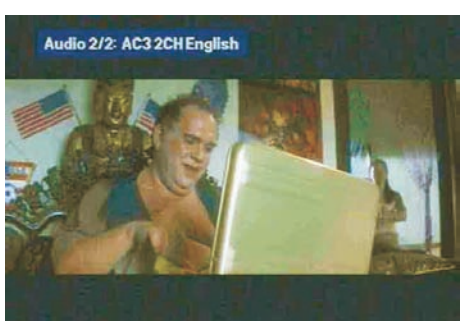
4 DVD Menu (RDM)

Press DVD MENU button less than 3 seconds to bring up the DVD MENU or ROOT on the DVD disc.

Tip: *When the DVD Menu or Root or Title is show on the screen, end user can use remote control or tap touch screen* ▲ ▼ ◀ ▶ *button to move the cursor and the* ↵ *button as OK button.*

5 DVD Audio

Press DVD AUDIO, you can choose audio streams, if the DVD disc or AVI / MPEG4 has multi audio streams.



7 Next Function

Press NEXT button or tap touch screen button when playing a disc, a chapter (DVD), a track (VCD / SVCD / CD), a song (MP3 / WMA), a picture (JPEG) , or a video file (AVI / MPEG4 / MPG/ DAT) is skipped forward accordingly.

8 PREV Function

Pressing PREV button or tap touch screen button will play the current chapter (DVD), current track(VCD / SVCD / CD), current song (MP3 / WMA) or current video file (AVI /MPEG4 / MPG / DAT) from the beginning if the already played time is less than four seconds. If already played time is more than four seconds, Pressing PREV button will skip a chapter (DVD), a track (VCD / SVCD / CD), a song (MP3 / WMA), a picture (JPEG) or a video file (AVI / MPEG4 / MPG / DAT) backwardly.

7/8 Fast Forward & Fast Back Forward Function

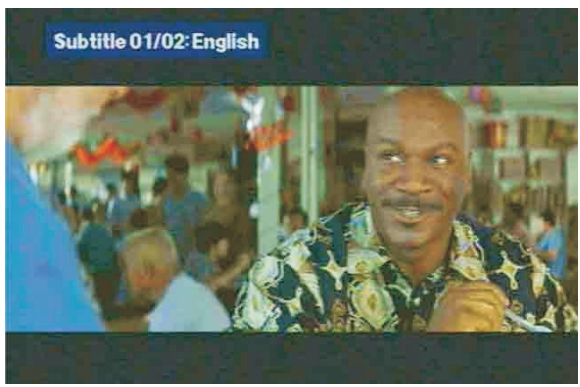
- Long press FAST FORWARD or touch screen for more than 3 seconds to fast forward through the disc. Each time the button is pressed, a new speed (2X, 4X, 8X or 16X) will be activated.
- Press PLAY or touch screen button to resume normal playback.
- Long press FAST BACKWARD or touch screen button to fast reverse through the disc. Each time the button is pressed, a new speed (2X, 4X, 8X or 16X) will be activated.
- Press PLAY or touch screen button to resume normal playback.

Number 0~9 (On Remote Control)

By pressing the Number (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) button, End user can access into the desired track or chapter. Also, it is widely used in different search domain: title search, chapter search, track search, time search and program function.

Subtitle (On Remote Control)

Pressing the SUBTITLE button on remote control, End user may select one of the subtitles language to show it on the screen or to turn off the SUBTITLE. This function is invalid for VCD / SVCD / CD, MP3 / WMA and JPEG.



9 DVD OSD (D)

- Short Press AS / PS button, once to display the amount of time played and time remaining on the disc.
- Short Press AS / PS button twice to display the disc type, current chapter (DVD) or track (VCD / SVCD, Audio CD) and total number of chapters or tracks. Also displayed (for DVD only) the current title, total number of titles, audio language / type / # of channels, subtitle language, and angle selection.

9 DVD Set Up (D)

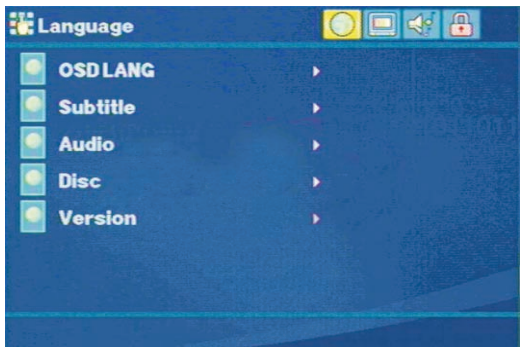
Press the SET UP button on the remote control or long press the AS / PS button for more than 3 seconds on the main unit to enter into the Setup Menu mode.

The options included in General Setup menu are: "Language"," Display", "Audio", "Parental".

Media Player

Language Setting

Press the or touch screen ▲ ▼ buttons, move to the Language button. The list of available language will appear:



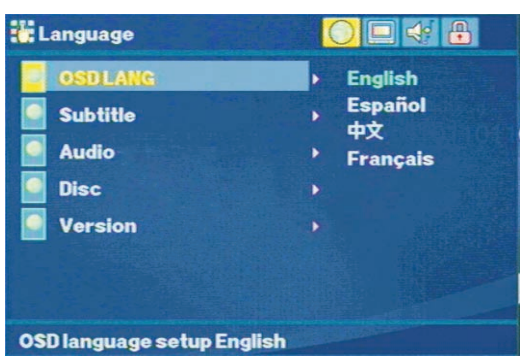
Use the ▶ buttons to select the setting.

Use the ▲ ▼ buttons to change among the available language.

Press Ok or touch screen ↵ to cycle through each possible option or display a list of the available options.

OSD language

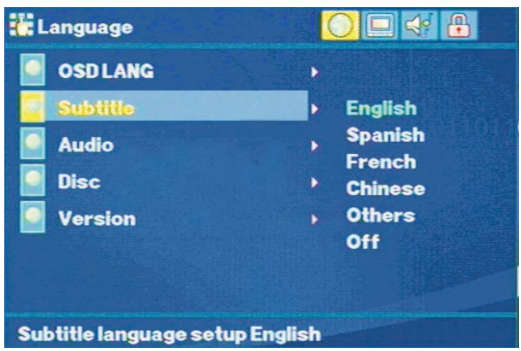
The OSD language setting provide the end user the selection of preferred language for the OSD menu and messages. The following options are available:



Media Player

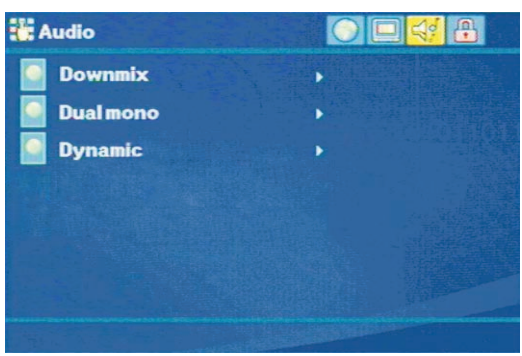
Subtitle

The Subtitle setting allows the end user to select a preferred language and to change the subtitle language setup.



Audio

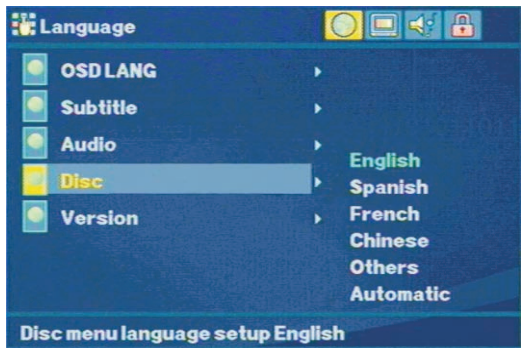
The Audio setting allows the user to select a preferred language and to change the Audio language setup .



Disc

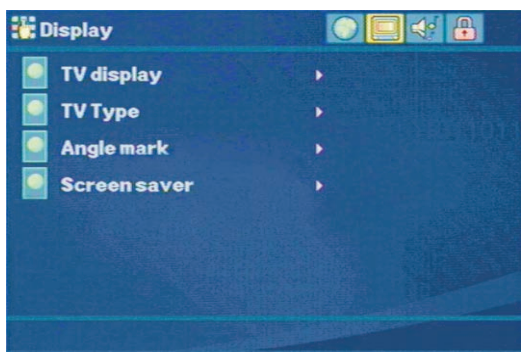
The Disc setting allows the user to select a preferred language and to change the Disc menu language setup .

Media Player



Display Setting

Press on the remote control or touch screen ▲ ▼ buttons, to move to the Display button. The list of Display options will appear as follow:



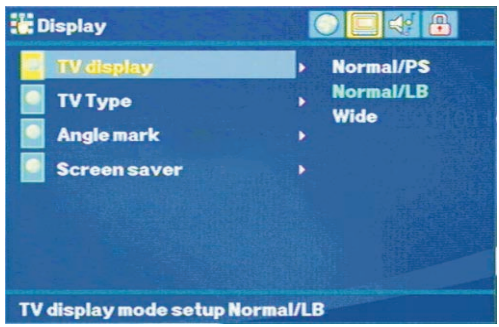
Use the ▶ buttons to select the setting.

Use the ▲ ▼ buttons to change among the avaitable settings.

Press Ok or touch screen ↵ to cycle through each possible option or display a list of the available options.

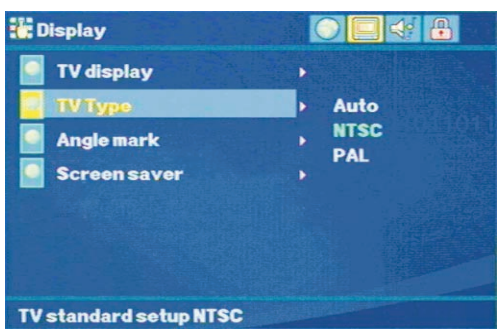
TV Dispaly

The Display setting allows the user to select the TV display. The following options are available:



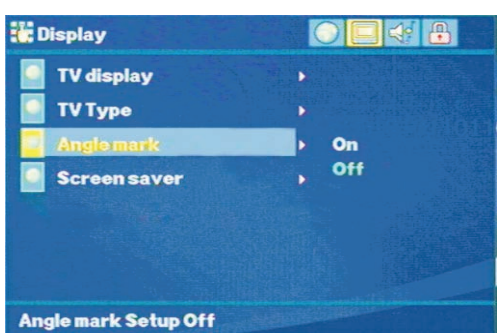
TV Type

The Display setting allows the user to select the TV type. The following options are available:



Angle Mark

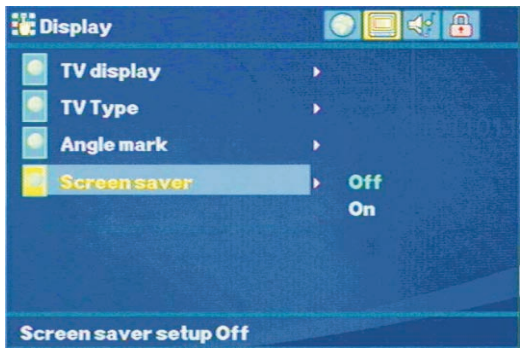
The Display setting allows the user to select the Angle mark on/off mode.



Media Player

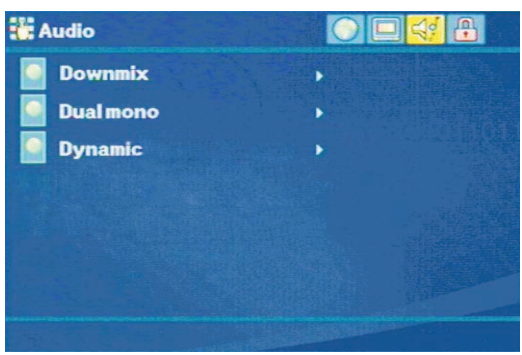
Screen Saver

End user can use this function to turn on or off the screen saver.



Audio Setting

Press on the remote control or touch screen ▲ ▼ buttons, move to the Audio button. The list of Audio optional will appear as follow:



Use the ▶ buttons to select the setting.

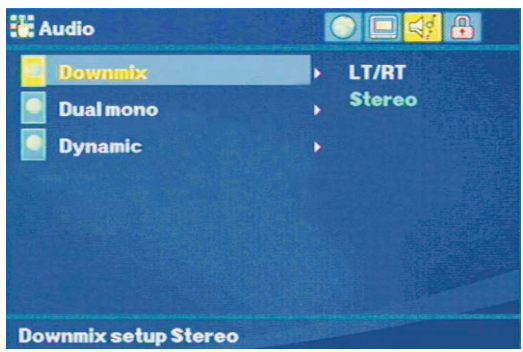
Use the ▲ ▼ buttons to change among the avaitable settings.

Press Ok or touch screen ↵ to cycle through each possible option or display a list of the available options.

Media Player

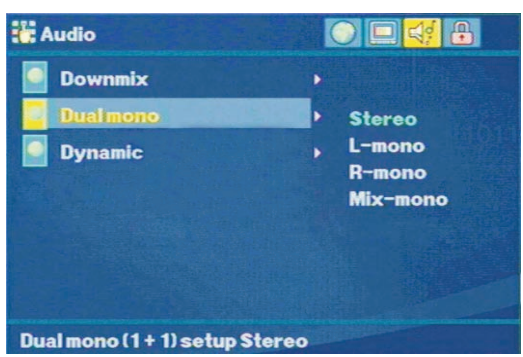
Downmix

The Audio setting allows the user to select the Downmix and set downmix setup stereo analog output of this Player.



Dual Mono

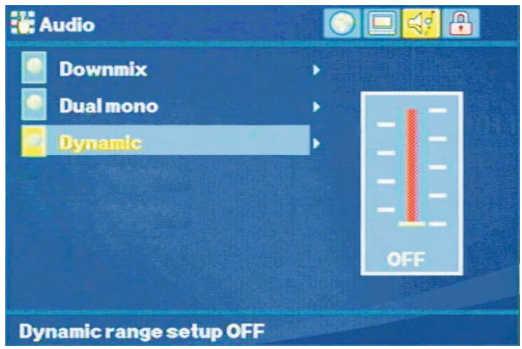
The Audio setting allows the user to select the Dual mono and set dual mono(1+1) setup stereo output of this Player.



Dynamic

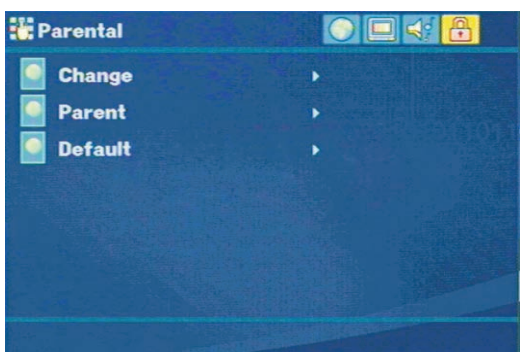
The Audio setting allows the user to select the Dynamic and set the dynamic sound output high volume outputs are softened.

Media Player



Parental Setting

Press the or touch screen ▲ ▼ buttons, move to the Parental button. The list of Parental optional will appear as follow:



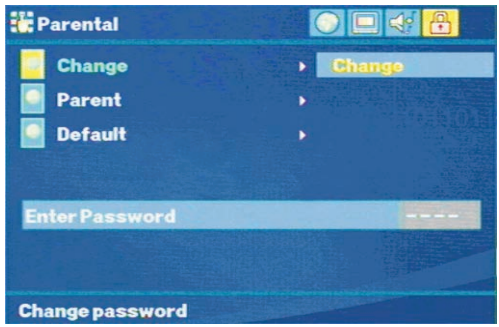
Use the ▶ buttons to select the setting.

Use the ▲ ▼ buttons to change among the avaitable settings.

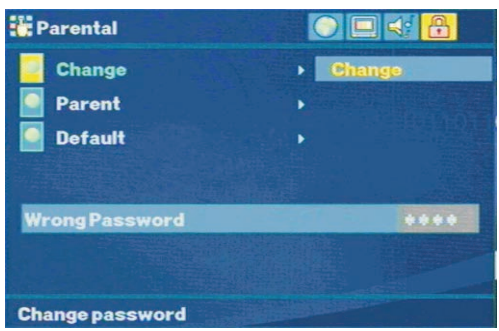
Press Ok or touch screen ↵ to cycle through each possible option or display a list of the available options.

Change Password

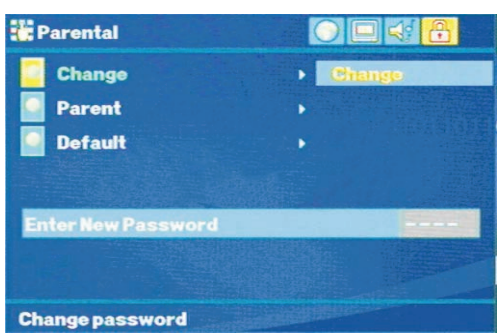
This feature is used for Parental Control. Enter your four digit password when a hint is displayed on the screen.



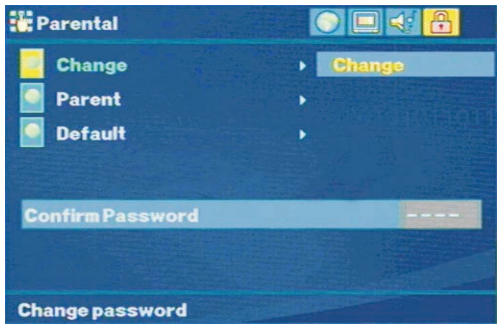
Once entered the wrong password, the "Wrong Password" message will appear.



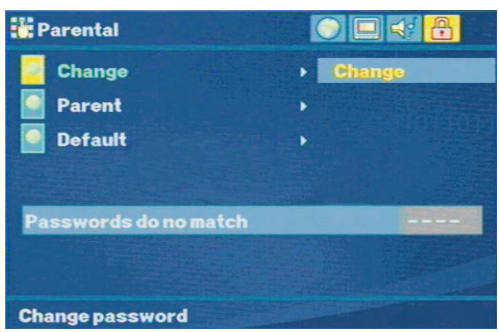
To re-enter the correct password, end user need to move to "Enter Password " again, and try again.



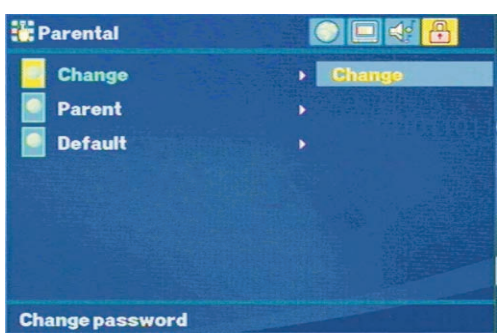
Once entered the correct password, press "OK" or touch screen and the "correct password" message will appear.



When the entered password is not matching, the " Passwords do no match" message will appear.



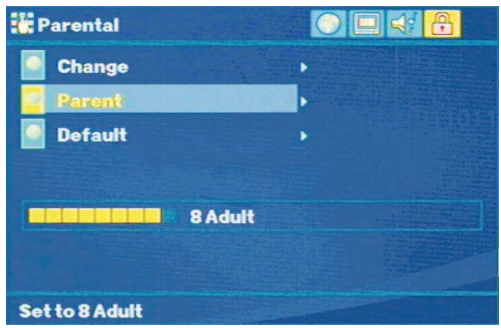
End user should try to re-enter the password again and press the "OK" or touch screen to confirm.



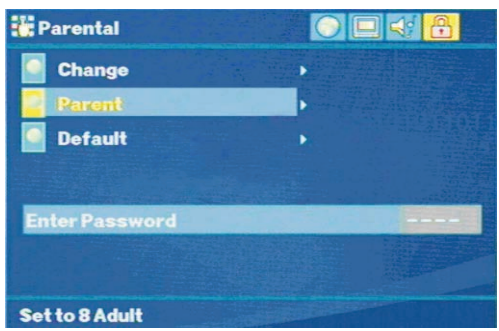
Parental Level

This function is to enter the Parental level control setup.

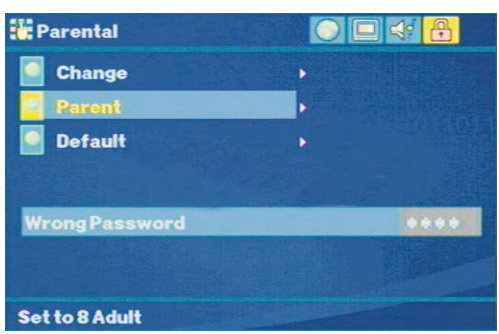
Media Player



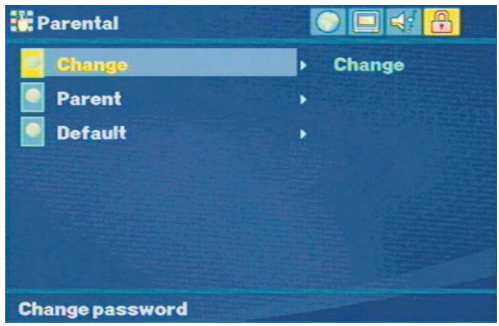
Press the ″OK″ or touch screen ↵ to enter the password.



If the password is not correct, the " Wrong Password" message will appear.



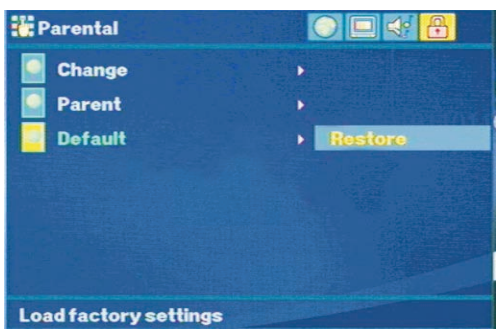
End user should try to re-enter the correct password again and press the ″OK″ or touch screen ↵ to confirm.



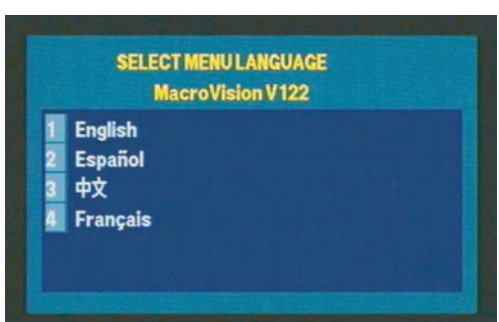
Default

Setting the ″ Default “ function will reset all options and your personal settings to the factory defaults and all your personal settings will be erased.

Use the ▶ buttons to select the setting.



Press the ″OK″ or touch screen ↵ to confirm the selection.



AV-In Mode

Caution: *In order to avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching moving video while driving. Park your car in a safe place and engage the "parking brake" before watching moving video.*

Note: *If watch moving video from Disc or AV In source but Parking Brake IS NOT PROPERLY CONNECTED, the video signal will be blocked by the system and the below display will be shown on the unit display:*

Select the AV mode

1. Press the MODE button repeatedly on panel or remote control to switch between Tuner -> Disc -> USB - > SD Card - > AV IN Mode.
2. Aceess to MAIN MENU and tap

AV Mode. Tap the following buttons to start playing the desired media sources:

button to start the Navigation mode

button to activale the Navigation Voice guide

Button to set the color preference

Button to quit the player

System Setting Operation

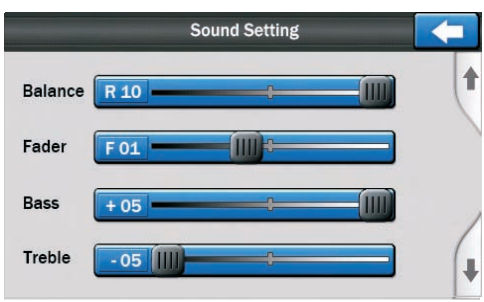
To adjust the system Settings of this unit, tap on the main menu screen button

to enter into the setting menu, the below menu will appear:

Sound Setting

Tap

button on setting menu screen to access into the sound setting menu, the below menu will appear for selection.

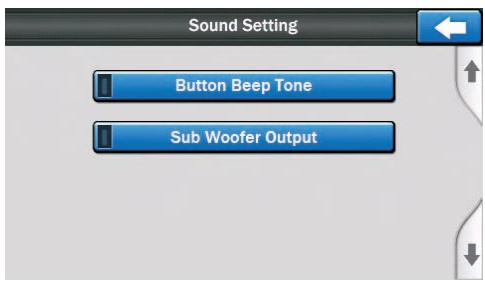


Setting	Control
	Left and Right Speaker Balance
	Front and Rear Speaker Fader
	Bass Level
	Treble Level

System Setting Operation

Tap button on the sound setting menu screen to select the level.

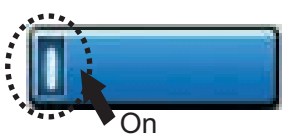
Tap button to enter in the next page, the below menu will appear for selection.

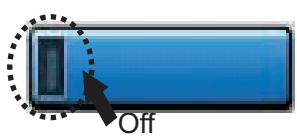


Note: *Tap* *button to be return to the previous page.*

Setting	Control
	Button Beep Tone
	Sub-Woofer Output

Tap bar on the sound setting menu screen to turn on or off of these functions.





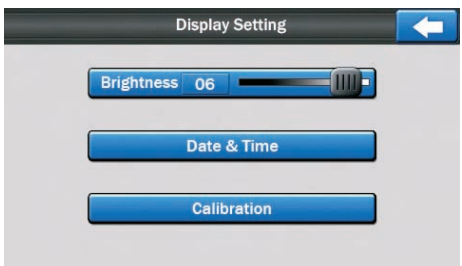
Tip: *Tap* *button to exit the sound setting menu.*

System Setting Operation

Display Setting

Tap

button on the setting menu screen to access into the Display setting menu, the below menu will appear:



Setting	Control
	Screen Brightness

Tap button on the Display Setting menu screen to select the level .

Date & Time Setting

Tap

on the Display Setting menu screen to access into the Date & Time menu, the below menu will appear:

Tap button to select the Year/ Month/Day of the Date mode and Hour/Min of the Time mode, then tap button to change the date & time.

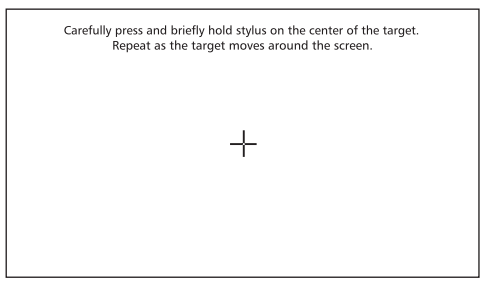
Tap

bar to change time format to 24 hours.

Calibration

Tap

bar on the Display Setting menu screen to start the Calibration setting.



When the target moves to another position, tap and hold at the center of the new target. Repeat each time to complete the calibration process.
Once completed, tap anywhere on screen to go back to menu screen.

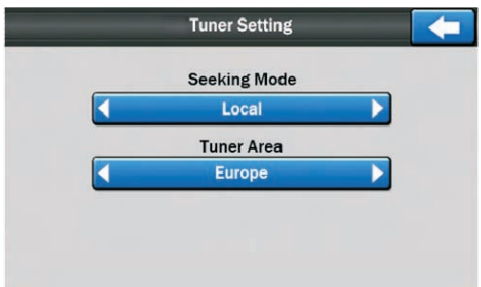
Note: *This Calibration is for the display touch screen. If found the touch screen buttons sensitive became low, the re-calibration is necessary.*

System Setting Operation

Tuner Setting (Radio)

Tap

button on setting menu screen to access into the Tuner (Radio) setting menu, the below menu will appear:



Setting	Control
	Change Tuner seeking in Local or Distant mode. (Local = Set the unit to select only strong local stations during automatic tuning Distant=Allowing the radio to stop at a broader range of signals)
	Change Tuner Frequency Area, Europe -> USA -> Asia -> Latin America ***Note: End user should make sure to select the Tuner Frequency Area which is correct for his area / region!! Otherwise radio will not perform correctly.***

Tap button to change the setting.

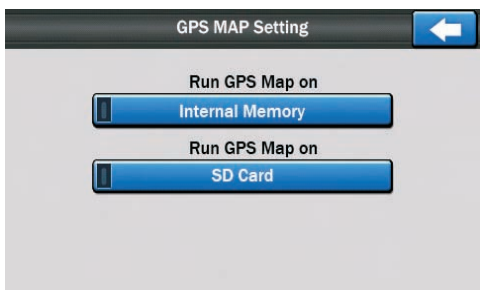
System Setting Operation

GPS Map Setting

This setting is for end user to select for run the digital Map which is stored into SD memory card or in the built-in internal memory.

Tap

button on setting menu screen to access into the GPS Map setting, the below menu will appear:



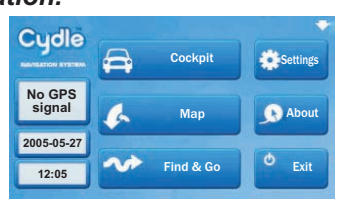
Setting	Control
Run GPS Map on Internal Memory	Select to run Digital Map on internal memory
Run GPS Map on SD Card	Select to run Digital Map on SD memory card

Important: To activates run the Digital Map on the SD Card. End user must switch off the GPS Navigation.

Access to GPS Navigation_Main Menu and tap

to switch off the GPS Navigation. After switched off the GPS Navigation, end user then tap

.



This time re-entry to GPS Navigation the system is automatic run the Map which stored on SD Card.

Tap as the confirmation of the selection.

System Setting Operation

Note: *End user can purchase the authorized digital map and store it into SD Memory Card.*

Note: *This unit ONLY CAN ACCEPT / RUN those digital map purchased from authorized dealers / agents. Any non-authorized digital map CANNOT BE USED on this unit.*

Note: *This unit only can run the SD Card contained with digital map which is inserted into the panel's SD card slot. Please refer to the page "Overview of the unit" for more details of the SD card slot for Digital Map use.*

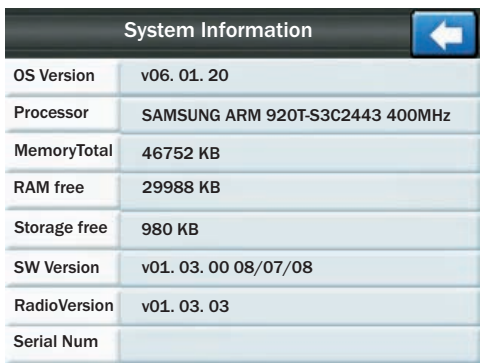
Note: *This unit is pre-loaded with digital map inside the INTERNAL BUILT-IN FLASH MEMORY. Please refer to page Navigation Operation _ Digital Map for more details.*

System Setting Operation

System Information

Tap

button on the settings menu screen to view the detail system information including serial number of this unit. The system information screen as follow. These information may different from unit to unit.



System Setting Operation

Upgrade Setting

Tap

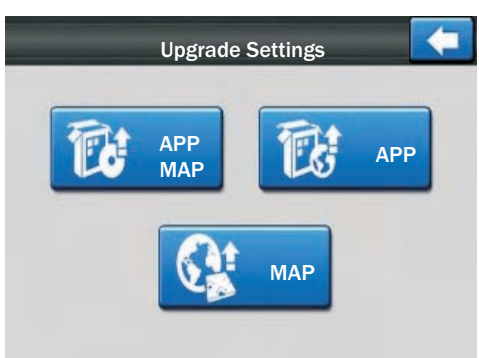
button on the settings menu screen to access into the upgrade menu, the below menu will appear:

Note: *Insert SD card with the upgrade files stored before proceeding with the upgrade and then tap on desired upgrade feature button in Upgrade mode.*

Map Upgrade Setting

Tap

button on the upgrade settings screen to access into the Map upgrade menu, the below menu will appear:



System Setting Operation

Setting	Control
	This Upgrade should only be performed by approved sevice center or techinal support from authorized dealer. End user should never try to APP MAP the unit by themselves.
	This Upgrade should only be performed by approved sevice center or techinal support from authorized dealer. End user should never try to APP the unit by themselves.
	This Map Upgrade is useful for end user whenever there is a newest version of digital map released by the authorized dealers / agents. ***Note: Map Upgrade is useful for end user whenever there is a newest version of digital map released by the authorized dealers / agents, and End User can upgrade the new digital map to the internal memory as the default map. Before making the Map Upgrade, please make sure this unit's internal memory size is big enough for loading the new digital map. To check the internal memory size for digital map, please refer to section, Navigation Operation_Digital Map for more details.***

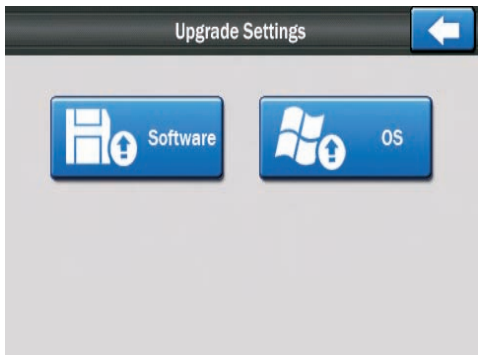
Note: *This unit only can be upgraded thru the SD Card interface. The SD card contained the upgrade data or digital map data must be inserted into the panel's SD Card slot .*
Please refer to the "Overview of the unit" for more details of the SD card slot for upgrade purpose.

System Setting Operation

System Upgrade Setting

Tap

button on the upgrade settings screen to access into the System upgrade menu, the below menu will appear:



Note: *System Upgrade should only be performed by approved sevice center or techinal support from authorized dealer. End user should never try to System Upgrade the unit by themselves.*

Memory Card Operation

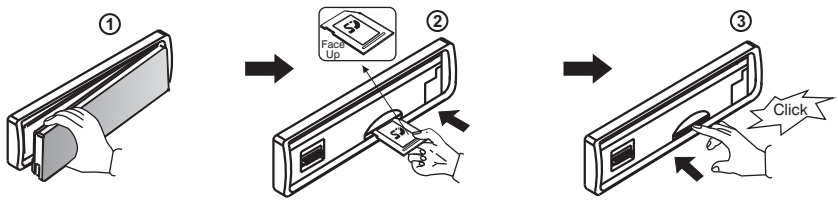
1. Press the MODE button repeatedly on panel or remote control to switch between Tuner -> Disc -> USB - > SD Card - > AV IN Mode.
2. Aceess to MAIN MENU and tap

MEDIA PLAYER. Tap the following buttons to start the playback of the desired media sources:

   Button to play the files in SD card

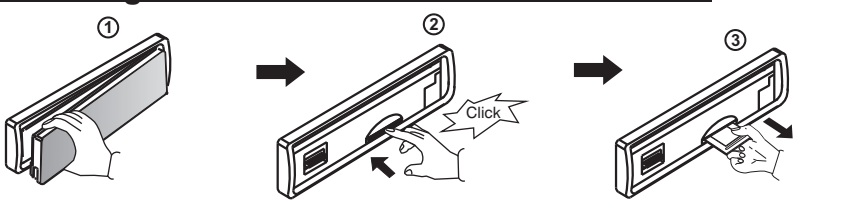
Note: *Please read below before you start the operation of Memory Card.*

Inserting SD or MMC card on the main unit



Detach the Front Panel | Insert the Memory Card with Label up side | Push in till heard a “click”

Removing the SD or MMC card on the main unit



Detach the Front Panel | Push in till heard a “click” | Remove the Memory Card

Mode change to MEMORY CARD MODE

After a SD or MMC card was inserted into the main unit card slot. Press panel Mode button or tap touch screen to select card mode. The unit will starts playing the files contained on the Memory Card. Once the unit read the Memory Card successfully, the first file on the Memory Card will automatically start to play.

Note: *If no any Memory Card is inserted into the main unit card slot. Pressing the mode button will automatically skip the SD card mode.*

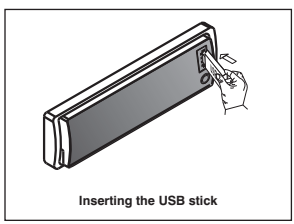
USB Operation

1. Press the MODE button repeatedly on panel or remote control to switch between Tuner -> Disc -> USB - > SD Card - > AV IN Mode.
2. Aceess to MAIN MENU and tap

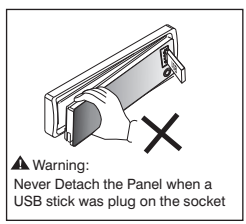
MEDIA PLAYER. Tap the following buttons to start playing the desired media sources:

button to play files in USB

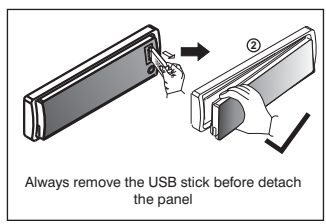
Inserting and Removing USB Drive



Inserting the USB stick



⚠ Warning:
Never Detach the Panel when a USB stick was plug on the socket



Always remove the USB stick before detach the panel

Mode change to USB MODE

Under any other mode while inserting a USB Stick into the USB connector, this unit will automatically switches from the current mode to USB mode. Once the unit read the USB Stick successfully, the first audio music file on the USB stick will automatically start to play.

Caution: *Before removing the USB stick from the USB connector. Please always remember to switch off the unit's power or switch to other mode then unplug the USB Stick. Never try to remove the USB Stick while playing music file on the USB stick. It may damage the USB Stick and sometimes will caused the unit system to lock up.*

Note: *About Music Flash Player with USB Interface, usually, the unit takes longer time to read this kind of player than normal USB Stick. Especially, if the USB / MP3 player is with built-in power battery, sometimes it may takes 20-30 seconds to start up the playback.*

Navigation Operation

What is GPS Navigation

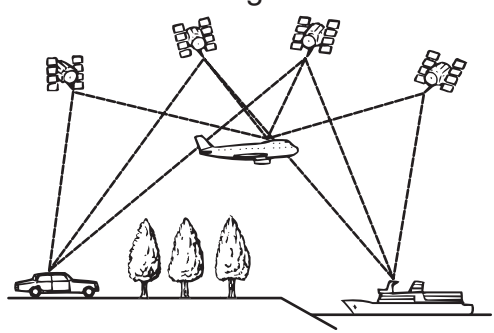
The term ″navigation″ is generally understood to mean the location of a vehicle, the determination of the direction and distance from the desired destination and the required route. As navigation aids, stars, prominent landmarks, compass and satellites are used.

This unit, location is determined with the GPS receiver (GPS =Global Positioning System). The direction and distance from the destination are determined by using a digital road map, a navigation computer and sensors. A speedometer signal and a reverse signal are additionally used to calculate the route.

What is GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 68 900 000 feet (21 000 km), continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude, and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Navigation Operation

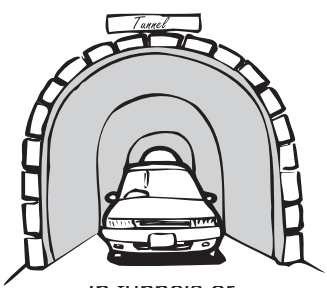
To receive GPS signals successfully

- You have a clear sight of sky
- The GPS antenna is not covered
- The weather is good enough. GPS signal is weaker in bad weather conditions
- The time needed for establishing a GPS connection ranges from seconds to minutes.
- You are outdoor.

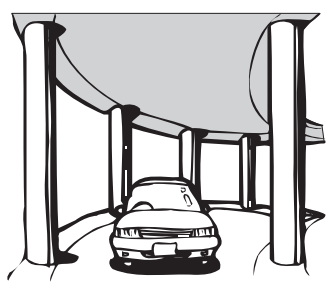
When the positioning by GPS is impossible

If signals cannot be received from more than two GPS satellites, GPS positioning does not take place.

In some driving conditions, signals from GPS satellites may not reach your vehicle. In this case, it is impossible for the system to use GPS positioning. The following are some examples:



In tunnels or
enclosed parking garages



Under elevated
roads or similar structures

When driving
among high buildings

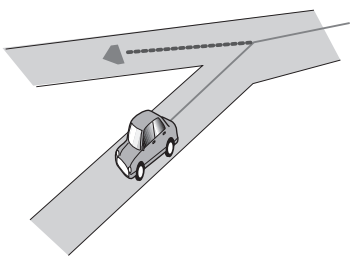
When driving through
a dense forest or tall trees

Navigation Operation

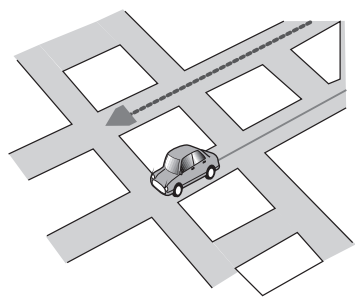
Conditions Likely to Cause Noticeable Positioning Errors

For various reasons such as the state of the road you are travelling on and the state of reception of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

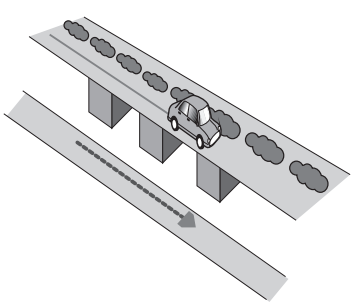
- If you make a slight turn.



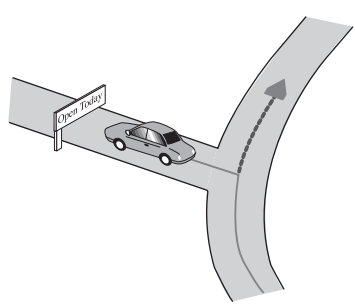
- If there is a parallel road.



- If there is another road very nearby, such as in the case of an elevated motorway.

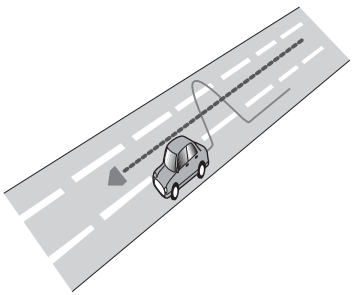


- If you take a recently opened road that is not on the map.

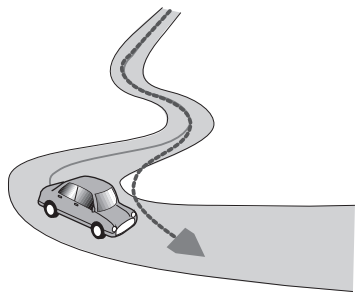


Navigation Operation

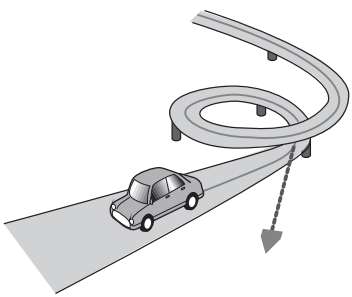
- If you drive in zig-zags.



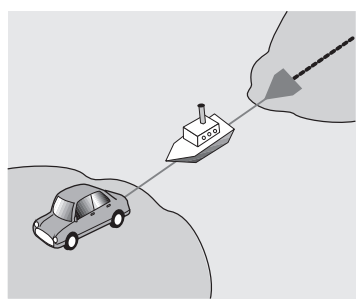
- If the road has connected hairpin bends.



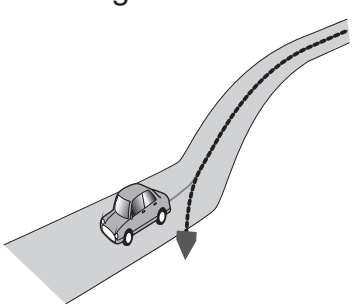
- If there is a loop or similar road configuration.



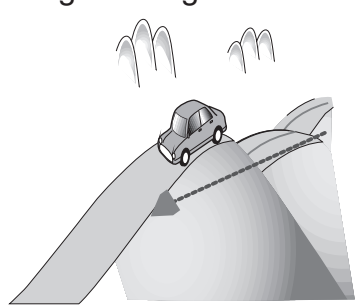
- If you take a ferry.



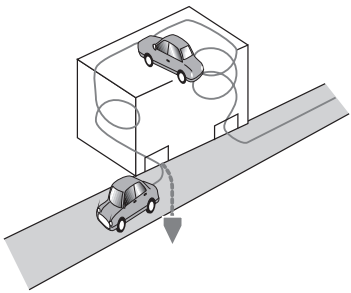
- If you are driving on a long, straight road or a gently curving road.



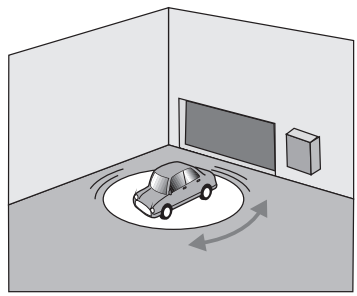
- If you are on a steep mountain road with many height changes.



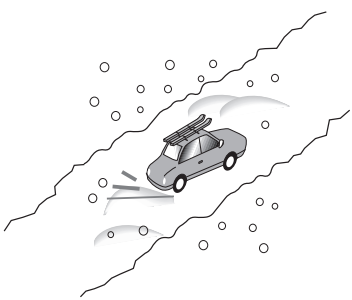
- If you enter or exit a multi-storey car park or similar using a spiral ramp.



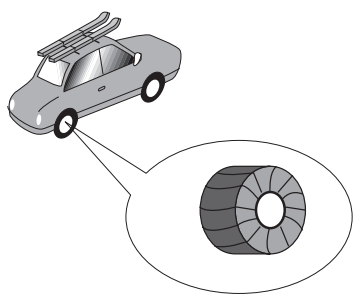
- If your vehicle is turned on a turntable or simi-lar structure.



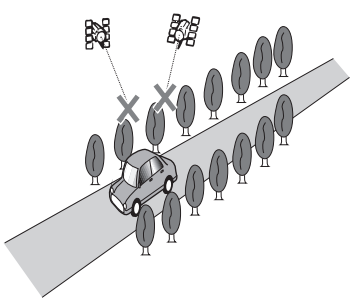
- If your vehicle's wheels spin, such as on a rough track or in snow.



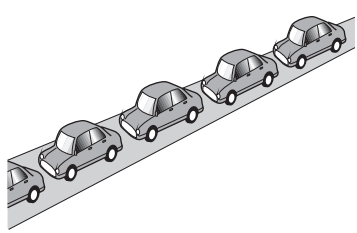
- If you put on chains or change your tyres for ones with a different size.



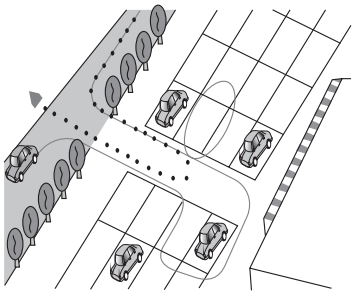
- If trees or other obstacles block the GPS sig-nals for a considerable period.



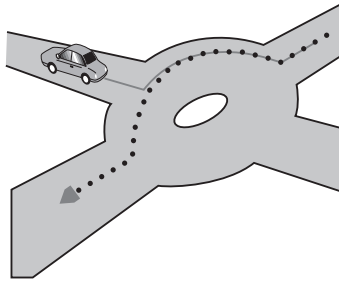
- If you drive very slowly, or in a start-and-stop manner, as in a traffic jam.



- If you join the road after driving around a large car park.



- When you go round a roundabout.



- When starting driving immediately after start-ing the engine.
- If you turn your navigation system on while driving.

Some types of vehicles may not output a speed signal while driving at just a few kilometres per hour. In such a case, the current location of your vehicle may not be displayed correctly while in a traffic jam or in a car park.

Navigation Operation

Digital Map

This unit is pre-loaded with the below digital map marked with Yes inside the INTERNAL BUILT-IN FLASH MEMORY:

Maps Pre-Loaded

Eastern Europe		Western Europe	
Albania		Andorra	Yes
Belarus		Austria	Yes
BosniaHrz		Belgium	Yes
Bulgaria		Denmark	Yes
Croatia.fbl		Finland	Yes
CzechRep		France	Yes
Estonia		Germany	Yes
Greece		Italy	Yes
Hungary		Luxembourg	Yes
Latvia		Norway	Yes
Lithuania		Portugal	Yes
Moldova		Republic of Ireland	Yes
Poland		San Marino	Yes
Romania		Spain	Yes
Serbia		Sweden	Yes
Montenegro		Switzerland	Yes
Slovakia		The Netherlands	Yes
Slovenia		United Kingdom	Yes
Turkey			
UKraine			

Note: *End ser can purchase the authorized digital map and stored it into SD Memory Card. This unit ONLY CAN RUN THE AUTHORIZED DIGITAL MAP PURCHASED FROM AUTHORIZED AGE-NT OR DEALER on SD card.*

Tips: *Please refer to page SETTING _ Run GPS Map for details on how to run the digital map on SD Card.*

Note: *This unit ONLY CAN ACCEPT / RUN those digital map purchased from authorized dealers/agents.Any non-authorized digital map is CANNOT BE USED on this unit.*

Navigation Operation

Start Navigation Mode

Caution: *For safety reasons, you can not use some of navigation functions while your vehicle is in motion.To enable these funcions, you must stop in a safe place and apply the handbrake.*

- Park your vehicle in a safe place and apply the handbrake.

How to get into the GPS Navigation system

Please read the below instruction carefully before operating the unit.

1) First power on the unit by pressing the "POWER / MUTE" button.
2) There are several ways to get into the GPS NAVIGATION MODE:

- When in the Tuner / Radio mode, end user can press on the GPS button ON THE TOUCH SCREEN to get into the GPS NAVIGATION MODE.

- When in Media Player mode (CD / DVD / USB / SD), end user can tap on the touch screen, to bring up the menu, and then press on the NAVI button ON THE TOUCH SCREEN to get into the GPS NAVIGATION MODE.

Navigation Operation

- When in AV IN Mode, end user can tab on the touch screen, to bring up the menu, and then press on the NAVI button ON THE TOUCH SCREEN to get into the GPS NAVIGATION MODE.

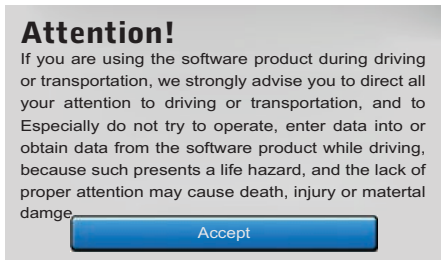
- End user can press the MODE button repeatedly, until the ″ MAIN MENU″ appear on the screen, then press the mode button

to get into the GPS NAVIGATION MODE.

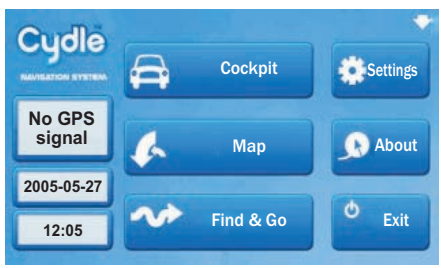
- Or end user when in any mode, short pressing the ″ GPS MODE / TA″ button on the front panel, to get into the GPS NAVIGATION MODE.

3) Unit should start to load the GPS NAVIGATION SOFTWARE (If the GPS NAVIGATION has not been activated before, or the GPS NAVIGATION is not in used),and the ″ ATTENTION″ SCREEN should appear. Sometimes the loading of the GPS NAVIGATION SOFTWARE may take a while, but this is normal. End user should read the ″ ATTENTION″ CONTENT CAREFULLY before pressing the ″ ACCEPT″ button.

Navigation Operation


Attention!
If you are using the software product during driving or transportation, we strongly advise you to direct all your attention to driving or transportation, and to Especially do not try to operate, enter data into or obtain data from the software product while driving, because such presents a life hazard, and the lack of proper attention may cause death, injury or matertal damge
Accept

4) Once pressd the ″ACCEPT″ BUTTON, unit will get into the GPS NAVIGATION MODE, and the below screen will appear. And now end user is ready to enjoy the GPS NAVIGATION SYSTEM of this unit.



5) For the details operation of the GPS NAVIGATION SYSTEM of this unit, please refer to the GPS NAVIGATION SYSTEM USER MANUAL provided together with this unit.

Tips: *End user can switch to GPS NAVIGATION MODE, or GPS MAP SCREEN at any time, in any mode by pressing the "GPS MODE" button on the front panel. And pressing this " GPS MODE" button to switch back to the previous mode.*

Tips: *End user can turn on or off the "GPS NAVIGATION VOICE GUIDE" by pressing the "NAVI VOICE" button on the front panel. Once this NAVI VOICE GUIDE is turned on, whenever there is any NAVI VOICE GUIDE, the current mode's audio output will be cut, and switch to the NAVI VOICE GUIDE, then switch back to the current mode's audio output.*

Navigation Operation

Highlight Features

The following are the highlight navigation features :

Navigation Voice Guidance under Tuner or Media Player playback

During the navigation mode, music of Tuner or Media player can still be heard. This unit will automacitally MUTE the music of tuner or Media player when there is announcement from the navigation voice guidance.

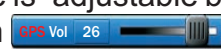
This function can be activate or deactivate by:

- Long pressing the NAVI VOICE button on panel.
- Tapping on the touch screen buttons:
  1. Under Tuner Mode tap the screen

.
  2. Under Media player or AV in mode tap the screen

.

Navigation Voice Guidance Volume level control

The sound level of the navigation voice guidance is adjustable by press the NAVI VOICE button and When 

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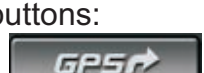
display on screen there is around 10 seconds time out to adjust the desired sound level by rotating the encoder volume knob.

Tips: *This sound level adjustment will not affect the Tuner or Media Player volume level.*

Tips: *Long pressing NAVI VOICE button can switch this voice guidance ON or OFF.*

Switch TFT display mode from GPS Map to Tuner or Media Player

- By short pressing the GPS MODE button on panel.
- By tapping on the touch screen buttons:
  1. Under Tuner Mode tap screen 

.
  2. Under Media player or AV in mode tap screen

.

Specification

General

Operating Voltage	DC 11 -14.4V
Grounding System	Negative Ground
Fuse:	15-Amp Mini ATM Type
Operating Temperature:	0° C to 50° C
Unit Mounting Angle	⩽ 30°

TFT Screen

Screen Size: 3.5 "(Measured Diagonally)
Screen Type: TFT Liquid Crystal Display active matrix
Resolution: 960 (W) x 324 (H)

Radio

FM

Frequency Range	87.5-108.0 MHz (50 kHz Space)
Usable Sensitivity	⩽ 15dB at S/N 30 dB
Stereo Separation	25 dB at 1KHz
S/N Ratio	50 dB

AM or MW

Frequency Range	522-1620 Khz (9 kHz Space)
Usable Sensitivity	⩽ 40dB at S/N 20dB
S/N Ratio	40 dB

Specification

Media Player

DVD / CD

Compatible Disc/Format	See “Disc Note” for more details description
Signal to Noise Ratio	⩾ 90 dB
Dynamic Range	⩾ 90 dB
Frequency Response	20Hz to 20Khz +/-3dB
Channel Separation	2 Channel (Stereo) >60dB @1khz

Video

Color System	NTSC / PAL
Video Output	Composite 1.0 Vp-p (+/- 0.2) 75 - ohm
Video Input	Composite 1.0 Vp-p (+/- 0.2) 75 - ohm

Audio

Max Output Power	75W x 4 channels
Load Impedance (speakers)	4 ohms
Digital Output	900mV
Line out level / load	400mV / 10k ohm load
Line out Impedance	200 ohm

Auxiliary Input

Frequency response	20Hz to 20KHz -3dB
Input Maximum Voltage	1200 mV
Input Impedance	4.7k ohm

GPS Navigation

GPS Receiver:

Reception system	20-channel multi-channel reception system
Reception frequency	1575.42 MHZ
Sensitivity	–130 dBm
Position update frequency	Approx. once per second

GPS aerial:

Patch Antenna	25mm x 25mm x 2
Aerial cable	5.0 meter
Dimensions(W x H x D)	40 x 16 x 50mm

Trouble Shooting

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to “ACC”.
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature returns to normal.
	Condensation.	Leave the player to off for an hour or so,then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirt ordefective disc.	Clean the compact disc. Then try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.
ERROR	Mechanism Error	Press the eject button to correct the problem. If the error code does not disappear, consult your nearest service dealer.
Disc Error	Maybe disc dirty / disc scratched/disc upside down.	Replace the disc.
You cannot position.Your vehicle on the apor the positioning error is large.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy.Such a loss of signal quality may happen for the following reasons: ● The GPS aerial is in an unsuitable location. ● Obstacles are blocking sign-als signals from the satellites. ● The position of satelites rela-tive to your vehicle is bad.	Check the GPS signal reception and the position of the GPS aerial if necessary or continue driving until reception improves. Keep the aerial clear.